AD-A127 621 INTEGRATED TACTICAL COMMUNICATIONS SYSTEM (INTACS) 1/2
AUTOMATED SYSTEM MANAGEMENT INFORMATION PROCESSES(U)
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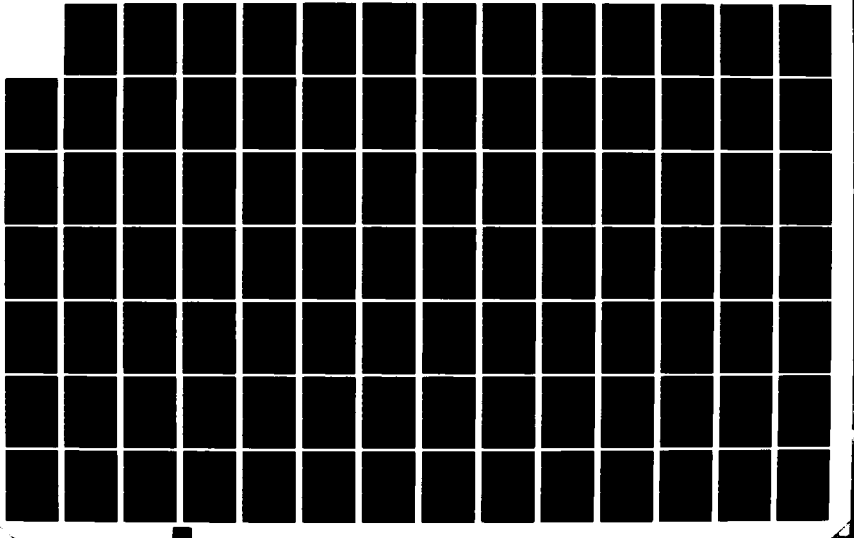

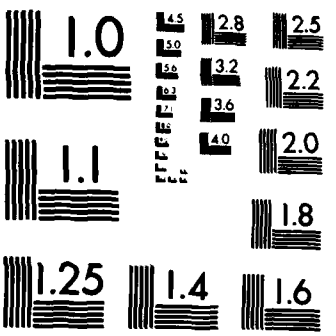

INTACS AUTOMATED SYSTEM MANAGEMENT INFORMATION PROCESSES

Contract DAAK21-79-C-0161

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FOREWORD

The INTACS Transition and Management Plan defined the Automated System Management Information (ASMI) concept. The ASMI process provides the operating guidelines, as well as the implementing and operating procedures within the Systems Integration Management Office (SIMO) by which all commands and agencies concerned with INTACS Transition will receive timely reports and schedules. In order to implement the ASMI concept, the procedures within SIMO as well as the interfaces with external commands and agencies must be defined and put into a standard operating procedure.

The INTACS Automated Systems Management Information Processes was initiated to provide the link between the Automated Transition Plan and the implementers of this plan. Through this system, users will receive basic packages of transition reports and schedules on a periodic basis and may request audit and reference information as required.

The INTACS Automated System Management Information Processes was prepared by Martin Marietta Corporation for the U.S. Army Signal Center, Directorate of Combat Developments in accordance with the provisions of Contract DAAK21-79-C-0161.

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1.0 INTRODUCTION/SUMMARY

1.1 TRANSITION PLANNING

The Systems Integration Management Office (SIMO) approach to transition planning supports intensive management of INTACS, requires valid inputs, and is automated to provide timely outputs.

Figure 1-1 shows the SIMO transition planning approach which accepts recurring inputs and results in continuously updated output Transition Plan. While the INTACS progresses from current to future tactical communications systems, the details of each step reside in the Automated Transition Management System and data base.

SIMO developes and drives the Automated Transition Plan. Detailed equipment/assemblage lists and a series of five (5) network force models depict the transition to future systems. Major parts of the Plan are annual equipment acquisition and distribution to specific units of the force. Planned expansion will incorporate training impacts considerations and personnel availability in support of equipment according to fielding schedules.

The Plan provides details to managers and project officers who are engaged in implementing plans and actions. Then, the Automated Transition Management System is able to electronically read the status of these implementing plans and actions. Planned specific forces, TOE or BOI, expected budget and cost and the current status of equipments in the field are the major related items.

The point of departure (Baseline) for any working and steering groups who are considering changes to current or to future tactical communications should be the current set of Transition Plans as provided by SIMO. When approved, the changes made by the working and steering groups appear as implementing plans or actions, and result in changes to some or all of the inputs to SIMO. These inputs and the outputs from SIMO are planned to be distributed by an automated system within HQDA.

1.2 ARCHITECTURE PROCESSES (Figure 1-2)

Within SIMO, the INTACS Architecture Integration Function drives the Transition Planning and Implementation Functions. Changes to Architecture are handled in the steps: Changes Definition, Impact Evaluation and Incorporation.

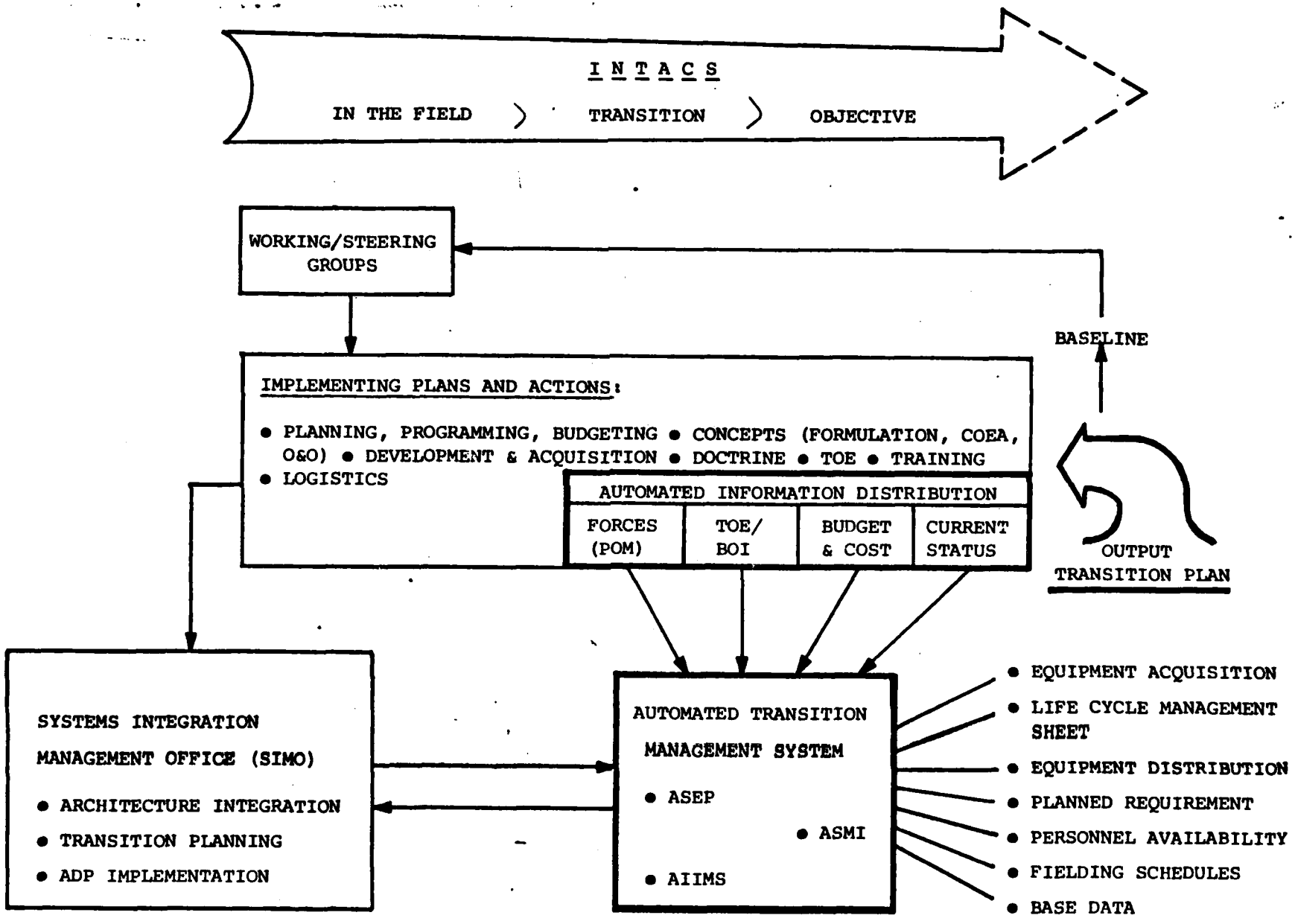


FIGURE 1-1 TRANSITION PLANNING

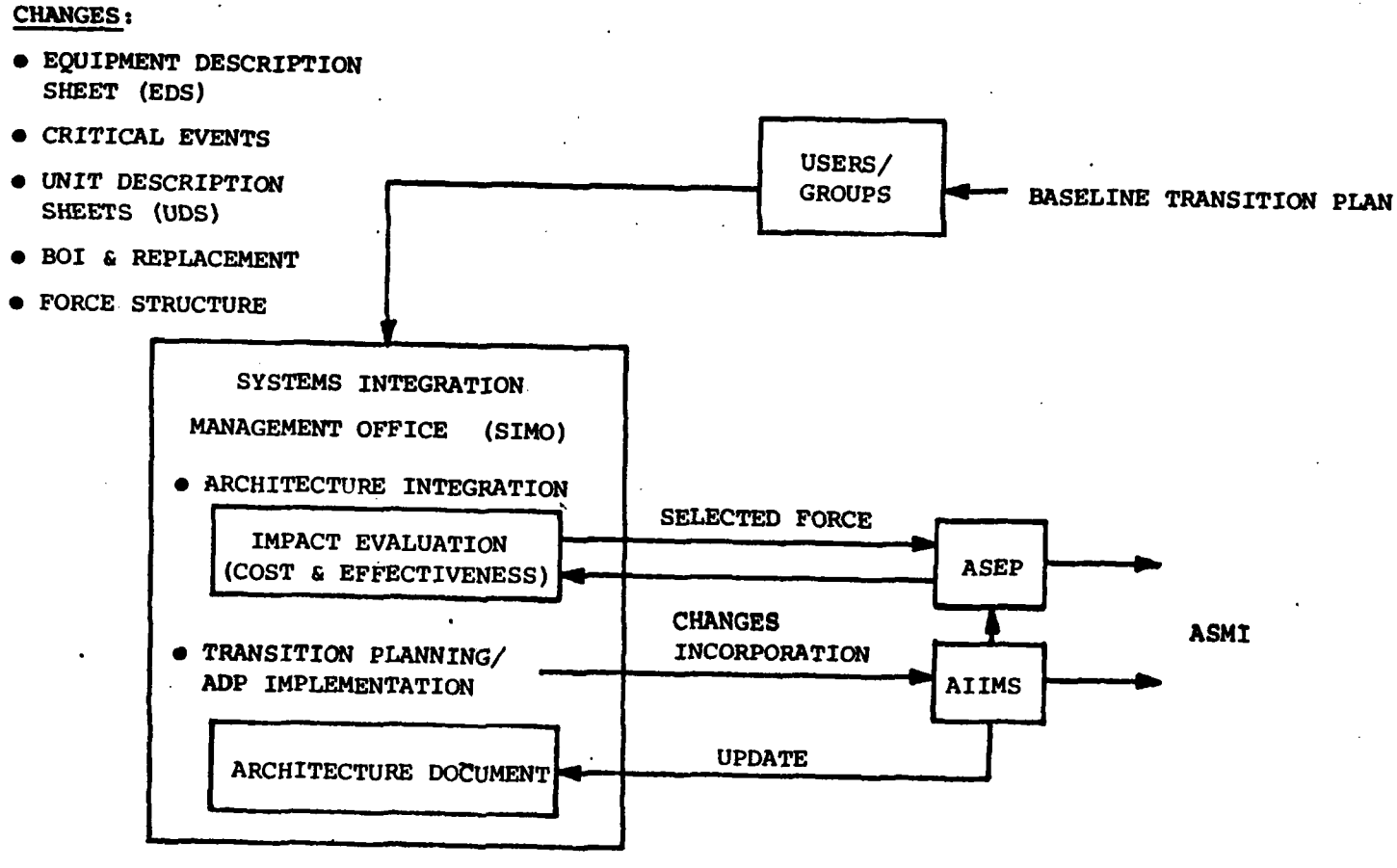


Figure 1-2 ARCHITECTURE CHANGE PROCESSES

Listed on Figure 1-2 are the essential inputs that are necessary for defining changes to the Architecture and Transition Plan. SIMO evaluates the impact on a selected force of significant conceptual and implementation changes using automated system evaluation and implementation programs. After approval, changes are incorporated into the data base and into the Architecture document.

1.3 ASMI CONCEPT (Figure 1-3)

This Automated System Management Information (ASMI) Process provides the operating guidelines, as well as the implementing and operating procedures, to establish the system within SIMO. This system will be the means through which all commands and agencies concerned with the INTACS Transition will receive timely reports and schedules. Update inputs through the same automated system will further insure that reports and schedules information is the latest available and that all users are working from a common data base.

ASMI is interwoven with the management functions and structure of SIMO so that it is inherently a part of the system (see Figure 1-3). Within this context, it is an automated tool so that the managers involved can start, modify and stop transitional processes in an effective manner. It also provides a means of control of the process whereby excursions or modifications of the transition program can be studied and compared without any disruptive effects on projects in progress.

1.4 ASMI PROCEDURES

ASMI is designed to provide information to managers that will assist them in performing their roles throughout the transition. Specific reports are to be generated that show status at any period, overall and specific requirements into the future and provide a means for comparing actual progress versus planned. These reports establish a management means for equipment planning, procurement and distribution as well as defining training requirements and providing system evaluation information. The ASMI reports and schedules are provided to the users on a periodic and demand basis and an automated log is kept to insure delivery as required. Local users are

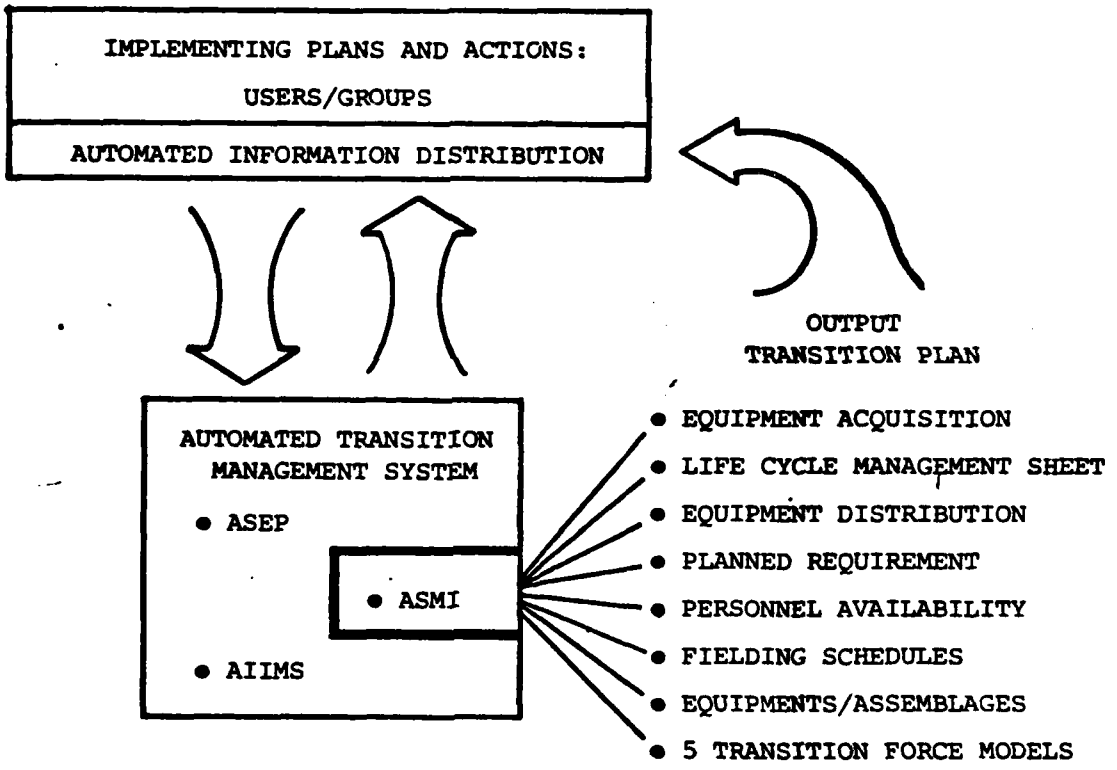


Figure 1-3 ASMI CONCEPT

provided over-the-counter service while remote users receive service via electronic mail by a computer/communications network (Figure 1-4).

1.5 ASMI REFERENCE HANDBOOK

This handbook provides a ready reference for SIMO on the functions and contents of ASMI. Master program lists, user lists, report schedules and program status are contained therein and are kept current through automated update.

The remaining sections of this report expand the Architecture and the ASMI processes of SIMO that are summarized in this first section.

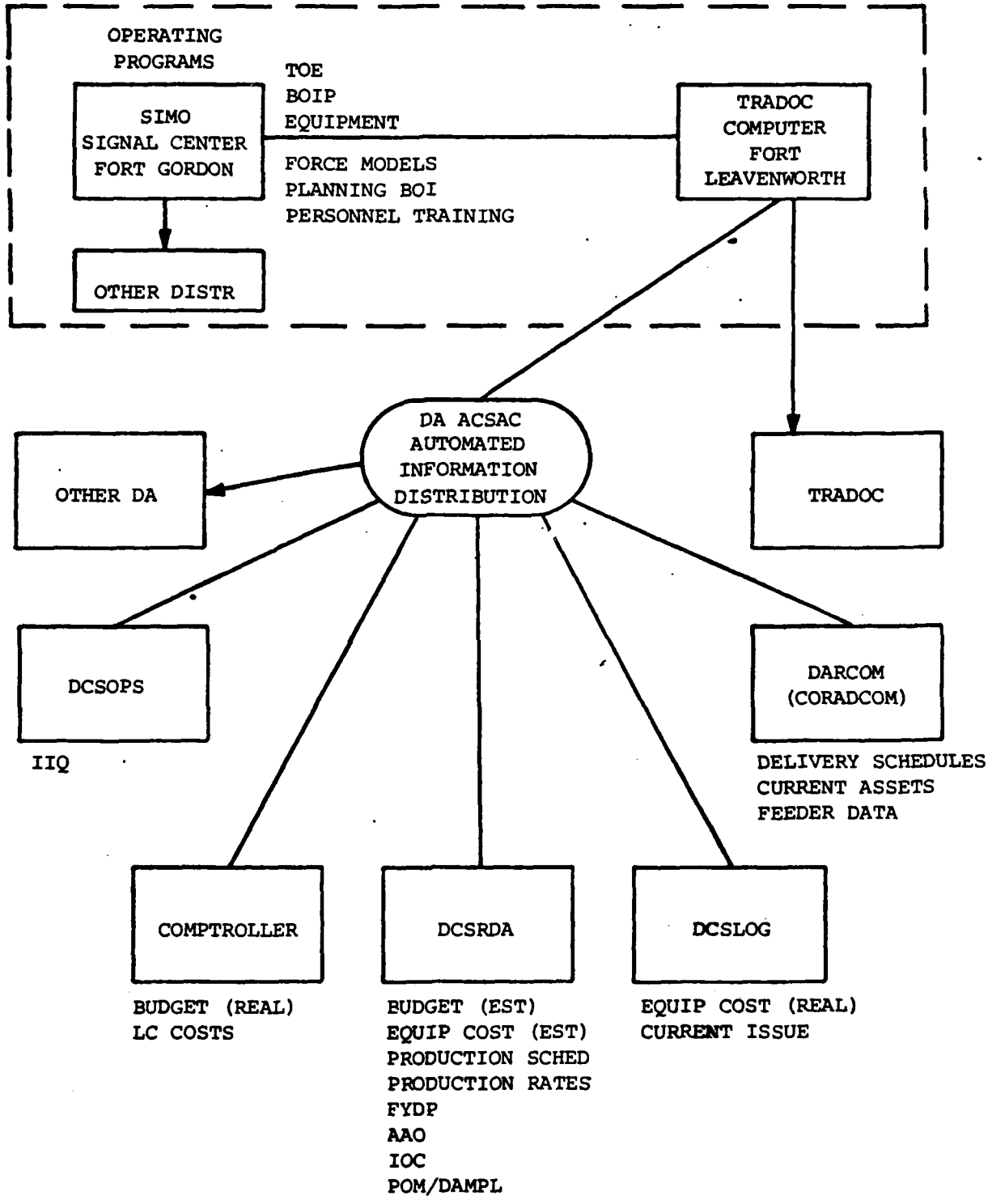


Figure 1-4 SIMO INPUT, OUTPUT DISTRIBUTION SYSTEM

2.0 ARCHITECTURE CHANGE PROCESSES

2.1 PROCESS FOR DEFINITION OF CHANGES

Changes to INTACS Architecture are defined by converting implementing plans/ actions such as computer records, approved documents and consultation with the working group into the inputs required to update document and implementation planning data base.

Working groups and action officers in tactical communications develop plans and insert records into the TRADOC Automated Force Development centralized computer files. When these records are available in that data base, changes to Architecture can be defined through computer-assisted analysis. Mission Area Analysis, O&O Concept and other documents also support changes, and where ambiguity exists, direct consultation with the working/action officer is employed. Changes incurred from Division-86 TOE series S,K,A and Mission Area Analysis are summarized on Table 2-I as examples of implementing plans and actions which impact on Architecture. These process for Architecture changes definition using automated and manual analysis programs and the form of required input are listed also.

The USASC&FG portion of Division-86 TOE series in the centralized computer files are read electronically utilizing TRADOC TOE header list program TEP 32. Review of the TEP 32 printout reveals that implementation of the Division-86 TOE series will cause restructure of the current AIM Division into a Heavy Division structure for Armor or Mechanized Infantry and a Light Division structure for Infantry. The next step determines what impact this restructure has on personnel and equipment.

Using today's current "H" series AIM Division TOE as the baseline, TRADOC Evaluation Program TEP 19 electronically reads the data base and provides output prints that compare each Division-86 TOE in each series with the baseline. These comparisons define changes in personnel and equipment that are planned to the AIM Division by 1986. The input to be done manually and the form of input required to describe the change in Architecture is listed for each type of major change. For example, an increase of 99 O&O personnel in the Division Signal Battalion for the "S" series Heavy Division is shown. This personnel increase is entered into the Architecture by manual update of the organizational diagram page of the Unit Description Sheet. In addition, equipment with an IOC of 1986 has been added to the Division Signal Battalion and the issue basis defined.

TABLE 2-I

ARCHITECTURE CHANGES DEFINITION SUMMARY

TOE SERIES	VARIATION	MAJOR CHANGE	PROCESS AUTOMATED	PROCESS MANUAL	ARCHITECTURE INPUT
H		TODAY'S AIM DIVISIONS BASELINE			
DIV-86 S	610	RESTRUCTURE TO HEAVY DIVISION ARMOR OR MECH INFANTRY	TEP 32	REVIEW	
		-O&S PERSONNEL INCREASE	TEP 19	ORGANIZATION DIAGRAM	UDS
		-IOC 1986 EQUIPMENT ADDED	TEP 19	DESCRIBE EQUIPMENT & COMPONENTS, DEFINE ISSUE BASIS	EDS BOI
S	620	RESTRUCTURE TO LIGHT DIVISION INFANTRY	TEP 32	REVIEW	
		-O&S PERSONNEL REDUCTION	TEP 19	ORGANIZATION DIAGRAM	UDS
		-IOC 1986 EQUIPMENT ADDED	TEP 19	DESCRIBE EQUIPMENT & COMPONENTS, DEFINE ISSUE BASIS	EDS BOI
K	100	INCREASE O&S PERSONNEL	TEP 19	ORGANIZATION DIAGRAM	UDS
		INCREASE QTY TRC-145, GRC-142, VRC-46 .	TEP 19	DESCRIBE EQUIPMENT & COMPONENTS DEFINE ISSUE BASIS	EDS BOI
A	100	RESTRUCTURE TO HEAVY & LIGHT DIVISION	TEP 32		
		-O&S PERSONNEL INCREASE	TEP 19	ORGANIZATION DIAGRAM	UDS
		-IOC 1983 EQUIPMENT ADDED	TEP 19	DESCRIBE EQUIPMENT & COMPONENTS, DEFINE ISSUE BASIS	EDS BOI
TACTICAL COMMUNICATIONS MISSION AREA ANALYSIS				REVIEW	CONCEPT SUMMARY
		PLRS/JTIDS HYBRID			
		-O&S PERSONNEL INCREASE		SIG BN ORGANIZATION DIAGRAM	UDS
		-EARLY IOC 1986 EQUIPMENT ADDED		DESCRIBE EQUIPMENT & COMPONENTS, DEFINE ISSUE BASIS	EDS BOI
		IMPROVED HF		DESCRIBE EQUIPMENT & COMPONENTS, DEFINE ISSUE BASIS	EDS BOI

This equipment with a list of all it's components is manually input into the Architure in the form of Equipment Description Sheets. Definition of added equipment issue basis is used as input to update Basis of Issue information for all equipment in the data base and for major equipment in Architecture. The changes in TOE Series K and A which reflect plans prior to 1986 are defined in a similar manner as listed on Table 2-I.

Manual review of the Mission Area Analysis documents identify O&O personnel and equipments that will be fielded during the same time period covered by the Division-86 TOE series S. However, these PLRS/JTIDS Hybrid and improved HF equipments did not appear in the TEP 19 TOE comparisons. Since ambiguity exists between Division-86 TOE series computer files and Mission Area Analysis documents, direct consultations between SIMO and the working groups that originated the records is required. Upon resolution of the ambiguity, it is assumed the centralized computer files will be updated to reflect the current information. The MAA also recommended development of doctrine for a Division Area Multichannel System which is already in the Architecture.

There is an indication that the data contained in the Division-86 TOE series S, K, and A is of questionable value and should eventually be put into historical computer files. The process for change definition described here is valid, but will require manual revision unless accurate TOE records are inserted into the centralized computer files. To realize the full value of automated analysis programs for timely and accurate update of Architecture requires that centralized computer files be kept current.

The next section describes how automation supports the evaluation of impact of these or other changes in Architecture.

2.2 IMPACT EVALUATION

Application of the evaluation process results in quantitative cost and effectiveness data which details the impacts of changes to the architecture. This data is useful as basis for: assessment of impacts, assuring system integrity, selection/justification of alternatives and decision.

The process focuses on comparisons of alternative equipments and O&O personnel in a selected force. As shown in Figure 2-1, the Automated System Evaluation Program (ASEP) operates with AIIMS and TOE analysis programs, and allows manual selection of small to large force (military units) for modeling.

Comparisons of equipments costs along with operations and support personnel pay and allowance cost are provided by the TOE analysis programs (TEP) which read the automated TOE Series and equipment files. These three costs are in the primary

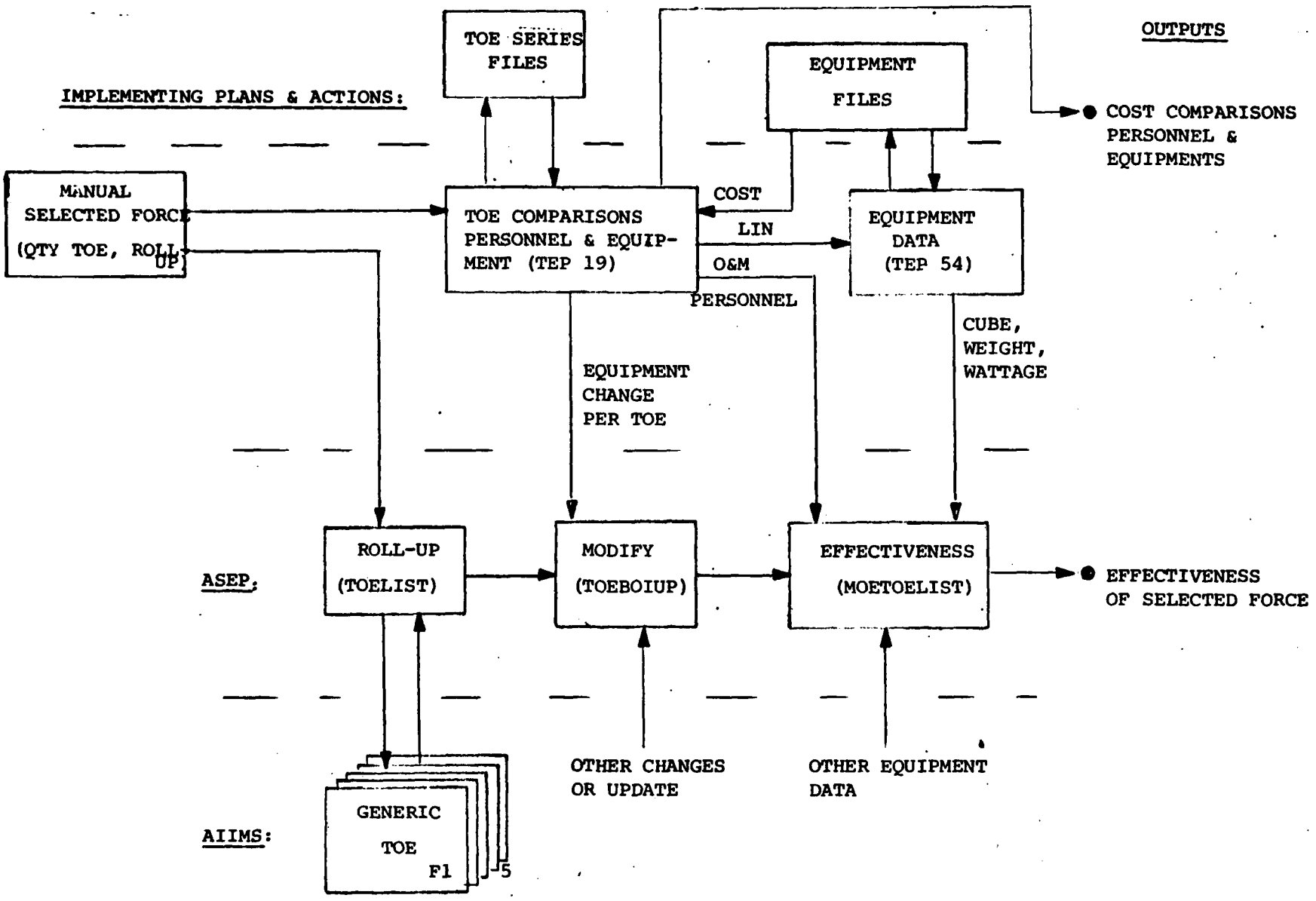


Figure 2-1 AUTOMATED ARCHITECTURE IMPACT EVALUATION

drivers of life cycle costs.

ASEP pulls from AIIMS a base Force Model which reflects the transition phase of interest, and then incorporate alternative equipments changes as delineated by the current and planning TOE Series. Comparisons of quantitative measures of effectiveness, such as cube (volume), weight, power, reliability, maintainability standardization and number of support personnel, are then provided for analysis. The computer outputs of the Architecture Impact Evaluation Process are illustrated and described in Appendix B.

Eventually, the ASEP is planned to be expanded to include total life cycle costs and automated graphs as shown on Figure 2-2.

The next section describes how the Automated Transition Management System aids the incorporation of changes into the Architecture and Transition Plan.

2.3 CHANGE INCORPORATION PROCESS

The Automated Transition Management System is used first as a tool to incorporate changes to Architecture, and then Architecture drives the Transition Plan assuring complete consistency and rapid update. The loop is close to a Concept and Data Base Summary Table which reflects and notifies the changes that are in the data base.

The INTACS Architecture is flexible to changes in requirements, concepts. equipments, and force structure. Personnel in SIMO will incorporate approved changes easily, since the documentation is directly supported by Automated System Management Information (ASMI). In the beginning, the Concept and Data Base Summary on Table 2-II depicts introduced - equipments and support personnel of the Communications Concept as they change in five stages of transition at low to high echelons. The format for the automated Concept and Data Base Summary is shown on Table 2-III.

The three steps of the Architecture Change Incorporation Process are summarized on Figure 2-3 along with the relationships with ASMI. As a result of a significant change, the Concept and Data Base Summary Table is automatically updated to reflect the essence of the change in time-phasing, equipments and personnel. This Table accurately depicts the Concept as actually embodied within the Automated Transition Management System. Procedures for architecture changes in Transition Concept, Communication Support Plan and Implementation guidelines chapters of INTACS Architecture follow:

Step 1:

Input to AIIMS each added equipment described in the form of EDS to be located

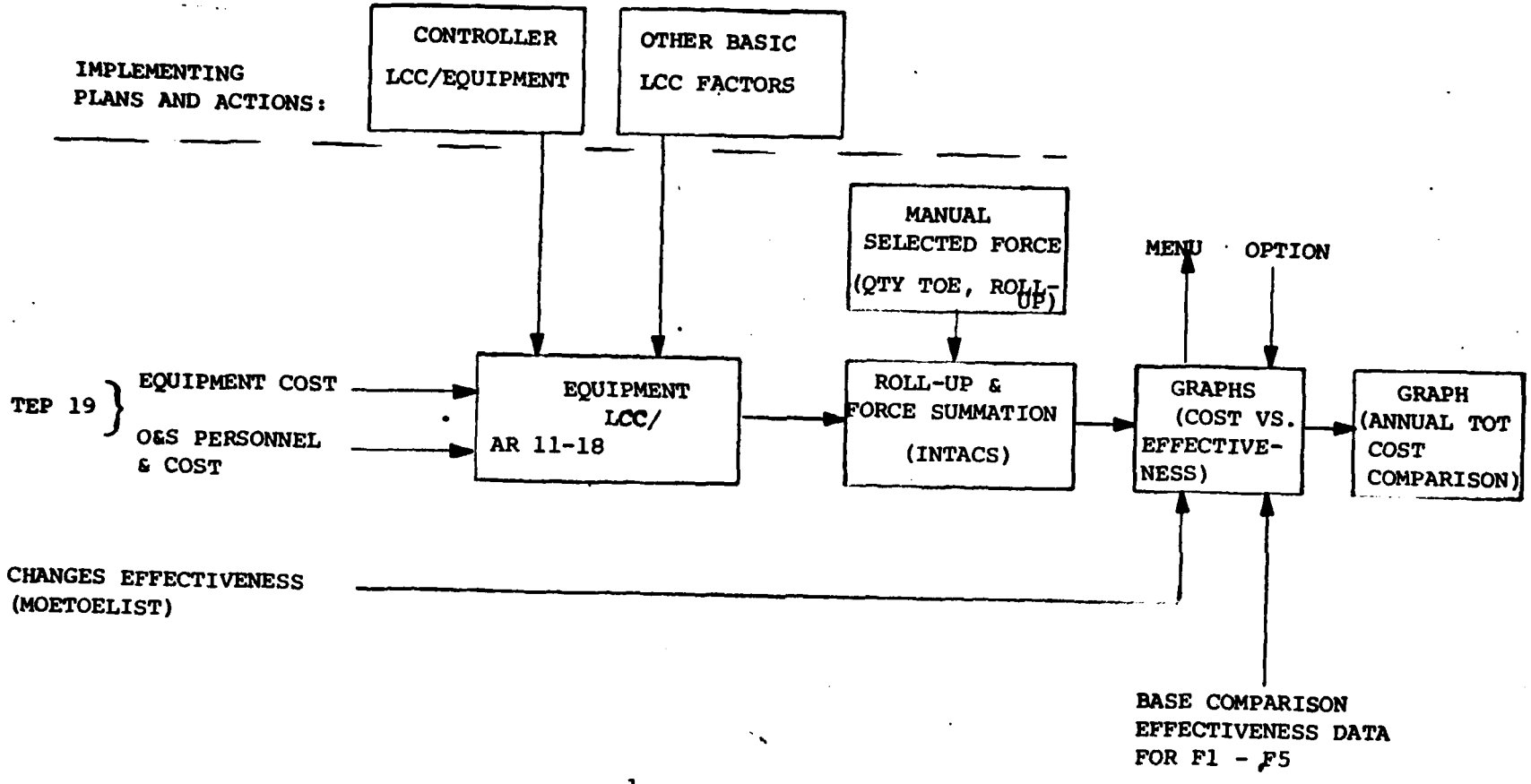


Figure 2-2 EXPANDED ASEP[1]

[1] Appendix B to Management Plan Study

TABLE 2-II Concept and Data Base Summary

	CURRENT	IMPROVED ATACS	HYBRID TRANSITIONAL EARLY	HYBRID TRANSITIONAL LATE (DIG)	OBJECTIVE
SEPARATE BRIGADE					
SINGLE CHANNEL RADIO	VRC-12 (224)			SINCGARS	
FACSIMILE		GXC-7A		UXC-4	
O&S PERSONNEL	53				44
DIVISION					
MULTIPLEX	TD-660 (66)	TD-976,1065,1069	DGM (LIM)	DGM (FULL)	
SWITCH	TTC-29 (11) TTC-23 (3) SB-86 (3) SB-22 (14)	TTC-41 SB-3614			
RWI/MOBILE TEL.	MANUAL RWI, GSA-7 (6)		BNRID	SDNRIU	INTEGRATED MSE (MST)
TACSATCOM		FDM TSC-85/93			DA TDMA
COMM CONTROL	MSC-31 (2) TSC-76 (7)	MSC-25 (PIP) MSC-32 (PIP)		CSCE	
O&S PERSONNEL	491				351
CORPS					
MULTIPLEX	TD-660 (1040)	TD-976 TD-1065 TD-1069	DGM (LIMITED)	DGM (FULL)	
SWITCH	MTC-1 (18)	TTC-38	TTC-39 TYC-39	TTC-42 SB-3865 MTCC	
TACSATCOM		FDM, TSC-85/93			DA TDMA
COMM CONTROL	TSC-76 (2) MSC-25 (7) MSC-31 (11) MSC-32 (22)	MSC-25 PIP MSC-32 PIP	CNCE, TSQ-111	CSCE, TYQ-16	CSPE
O&S PERSONNEL	4432				4387

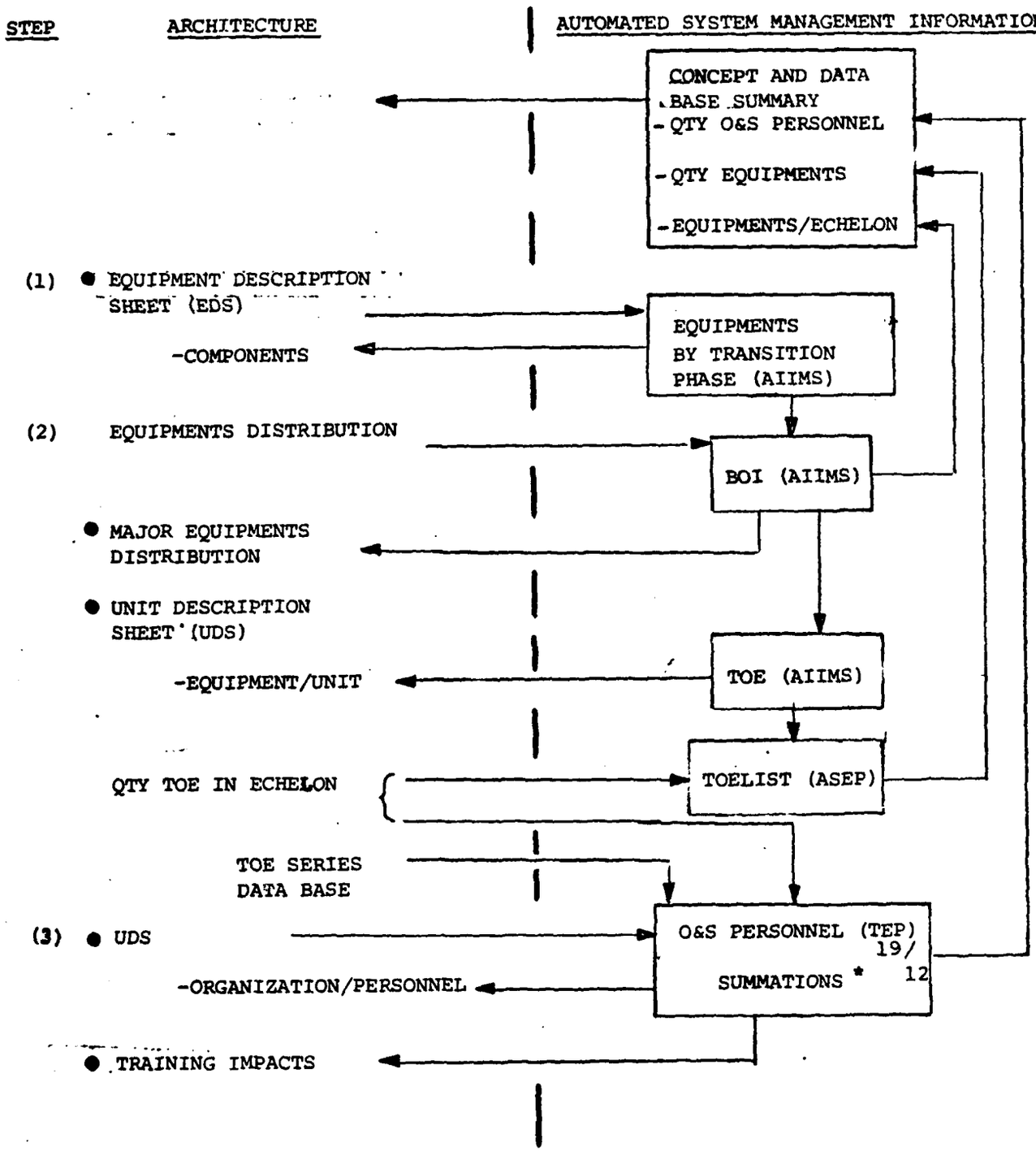
NOTE: Where equipments appear under a Transition period, this indicates the phase when equipment is scheduled to be fielded. It does not necessarily indicate that all equipment already in the field is replaced. Refer to Chapter 2, Implementation Guidelines, for detailed Transition Plans Force Structure.

TABLE 2-III Automated Concept and Data Base Summary Format

	CURRENT	IMPROVED ATACS	HYBRID TRANSITIONAL EARLY	HYBRID TRANSITIONAL LATE (DIG)	OBJECTIVE
		**** SEPARATE BRIGADE ****			
SINGLE CH. RADIO	VRC-12 (9999)	XXXXXXXXXXXXXX (9999)	XXXXXXXXXXXXXX (9999)	SINCGARS (9999)	XXXXXXXXXXXXXX (9999)
FACSIMILE	XXXXXXXXXXXXXX (9999)	GXC-7A (9999)	XXXXXXXXXXXXXX (9999)	UXC-4 (9999)	XXXXXXXXXXXXXX (9999)
O&S PERSONNEL	999 999 9999 99999 O WO ENL TOTAL	999 999 9999 99999 O WO ENL TOTAL	999 999 9999 99999 O WO ENL TOTAL	999 999 9999 99999 O WO ENL TOTAL	999 999 9999 99999 O WO ENL TOTAL
		**** DIVISION ****			
MULTIPLEX	TD-660 (9999) XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999)	TD-976 (9999) TD-1065 (9999) TD-1069 (9999)	DGM (LIMITED) (9999) XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999)	DGM (FULL) (9999) XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999)	XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999)
SWITCH	TTC-29 (9999) TTC-13 (9999) SB-86 (9999) SB-22 (9999)	XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999)	XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999)	XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999)	XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999)
RWI/MOBILE TEL.	RWI, GSA-7 (9999) XXXXXXXXXXXXXX (9999)	XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999)	BNRID (9999) XXXXXXXXXXXXXX (9999)	SDNRIU (9999) XXXXXXXXXXXXXX (9999)	INTEGRATED MSE (9999)
TACSATCOM	XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999)	FDM TSC-85 (9999) FDM TSC-93 (9999)	XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999)	XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999)	DA TDMA (9999) XXXXXXXXXXXXXX (9999)
COM CONTROL	MSC-31 (9999) TSC-76 (9999)	MSC-25 (PIP) (9999) MSC-32 (PIP) (9999)	XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999)	CSCE (9999) XXXXXXXXXXXXXX (9999)	XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999)
O&S PERSONNEL	999 999 9999 99999 O WO ENL TOTAL	999 999 9999 99999 O WO ENL TOTAL	999 999 9999 99999 O WO ENL TOTAL	999 999 9999 99999 O WO ENL TOTAL	999 999 9999 99999 O WO ENL TOTAL
		**** CORPS ****			
MULTIPLEX	TD-660 (9999) XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999)	TD-976 (9999) TD-1065 (9999) TD-1069 (9999)	DGM (LIMITED) (9999) XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999)	DGM (FULL) (9999) XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999)	XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999)
SWITCH	MTC-1 (9999) XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999)	TTC-38 (9999) XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999)	TTC-39 (9999) TYC-39 (9999) XXXXXXXXXXXXXX (9999)	TTC-42 (9999) SB-3865 (9999) MTCC (9999)	XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999)
TACSATCOM	XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999)	FDM TSC-85 (9999) FDM TSC-93 (9999)	XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999)	XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999)	DA TDMA (9999) XXXXXXXXXXXXXX (9999)
COM CONTROL	TSC-76 (9999) MSC-25 (9999) MSC-31 (9999) MSC-32 (9999)	MSC-25 PIP (9999) MSC-32 PIP (9999) XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999)	CNCE (9999) XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999)	CSCE (9999) XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999)	CSPE (9999) XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999) XXXXXXXXXXXXXX (9999)
O&S PERSONNEL	999 999 9999 99999 O WO ENL TOTAL	999 999 9999 99999 O WO ENL TOTAL	999 999 9999 99999 O WO ENL TOTAL	999 999 9999 99999 O WO ENL TOTAL	999 999 9999 99999 O WO ENL TOTAL

NOTES:

Figure 2-3 AUTOMATED CHANGE INCORPORATION PROCESS



in the Communications Support Plan Chapter of Architecture. Delete the replaced equipments on AIIMS lists. An equipment assemblage component print-out is returned as automated support of the Architecture document. Based on the given critical-event, developmental milestones and IOC, the new equipments must be introduced in one of five force Models which places them in a particular time frame. The next step involves who gets the equipment and what it replaces.

Step 2:

Read-in the distribution of the added equipments, and delete the replaced equipments in the BOI-file of AIIMS for the particular Force Model affected. For the Communications Support Plan Chapter, a print-out is returned to show Major Equipment Distribution. The BOI-file serves as the basis for adding or deleting significant equipments per echelon shown on the Concept and Data BAse Summary Table. Also, the TOE-file is automatically updated in AIIMS, and a print-out is the updated equipment page of the Unit Description Sheet in the Communications Support Plan Chapter.

An input definition of the quantity and type units in each echelon and type equipments of interest to the ASEP program. TOELIST, results in the automated summation of each type equipment in each echelon, which is entered in the Concept and Data Base Summary Table.

Step 3:

Provide the TOE organization diagram changes and signal personnel count in numbers of Officer (OFF), Warrant Officer (WO), Enlisted (ENL), as on the first page of the UDS in the Communication Support Plan Chapter. If the Changes are available in a TOE Series file, the Comparison Program, TEP 19, provides a listing of personnel by Grade and by MOS in each TOE. Summation results in totals by grade and totals by echelon. These summations of communications support personnel are used for update in the Training Impacts Section of the Communications Support Plan Chapter and in the Concept and Data Base Summary Table.

While the TEP programs are effective, considerable time-consuming manualmanipulation of data is required to arrive at the personnel strength levels. There is a need to develop a program which allows SIMO to directly access the TRADOC automated TOE personnel files at Ft. Leavenworth. A personnel program developed under the INTACS Study was operational in 1975. This program summarized communications support personnel in eight categories of MOS across a selected force model. This personnel program, updated and modified to sum by Officer, Warrant Officer, and

Enlisted personnel categories is described in Appendix C. Re-establishment of this program, as modified, will support the automated update of the INTACS architecture.

3.0 AUTOMATED SYSTEM MANAGEMENT INFORMATION (ASMI) REPORTING*

3.1 REPORTS

Reporting of System Management Information encompasses all the outputs of the Automated Transition Management System, including Architecture Update and System Evaluation Data, Acquisition and Distribution Implementation Schedules, Summaries and Base Data. A basic package of five reports as listed on Table 3-I is anticipated to be on automatic distribution four times a year to the specific agencies listed. In addition, SIMO will distribute baseline and evaluation data reports prior to working, Steering Committee and special meetings where exceptions to the plan are to be resolved. Other reports, listed in Appendix A are for reference and/or audit purposes and will be distributed upon request.

3.2 SCHEDULE

Distribution of inputs and outputs by automated means is a key factor for assuring delivery of data in time to support significant events. Figure 3-1 shows the periodic schedule for the electronic distribution of the inputs required by SIMO and the outputs at MILDEP levels in support of the four Planning, Programming, Budgeting System (PPBS) events listed. Table 3-II describes the four supporting events.

The System Integration and Architecture Element of SIMO validates all of the automated reports provided by the ADP Implementation Element via the Automated Transition Management System. For the reports on automatic distribution, the Implementation Element has the responsibility of assuring timeliness and notification of the proper individuals to provide validated information in the reports.

3.3 MANAGEMENT APPROACH

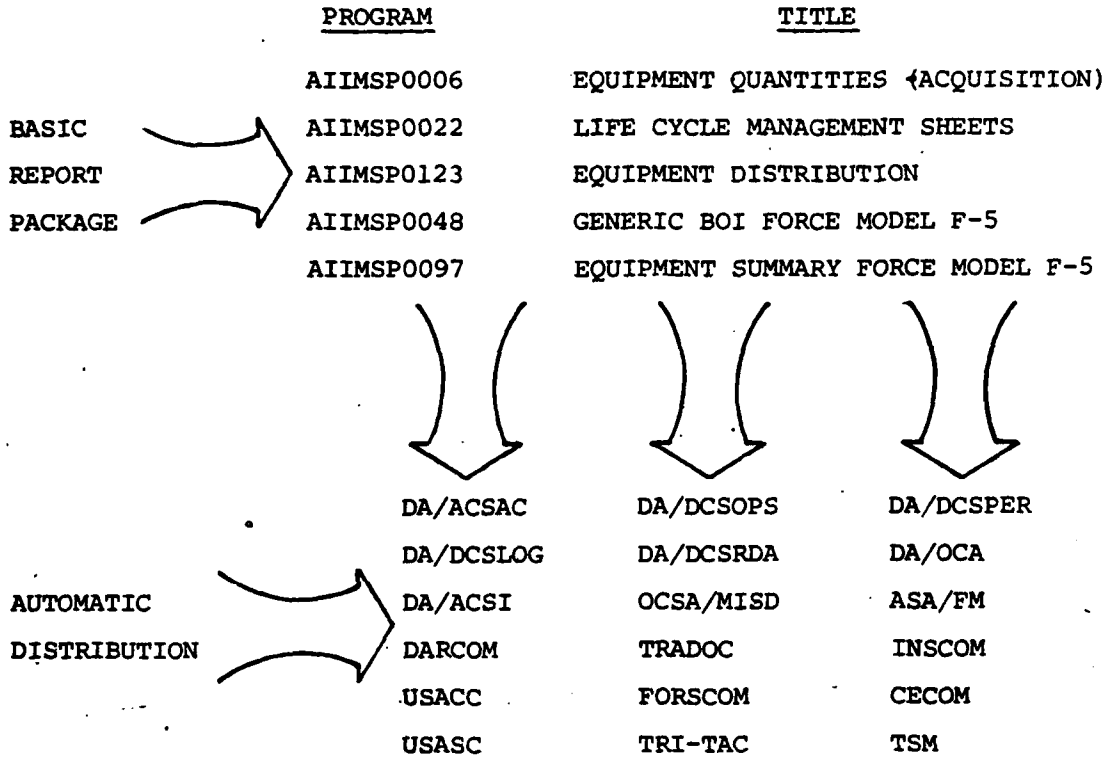
The SIMO management approach for the provision of Automated System Management Information which supports intensive management of the INTACS transition is shown in Figure 3-2 and is summarized as follows:

1. As the INTACS transitions from current to the objective system, the details of implementation reside in an extensive data base. With so many factors involved, it is essential that the data base and distribution concept be automated.
2. Recurring, validated inputs are provided by those agencies engaged in

* Also appears in paragraph 2.5.4 of SIMO Handbook.

TABLE 3-I

BASIC REPORT PACKAGE DISTRIBUTION



Notes:

1. Basic Report Package, above, distributed automatically to users in January, April, June and August.
2. Other reports, on attached Appendix A, Users Master List, are for reference and audit purposes and will be delivered upon request.

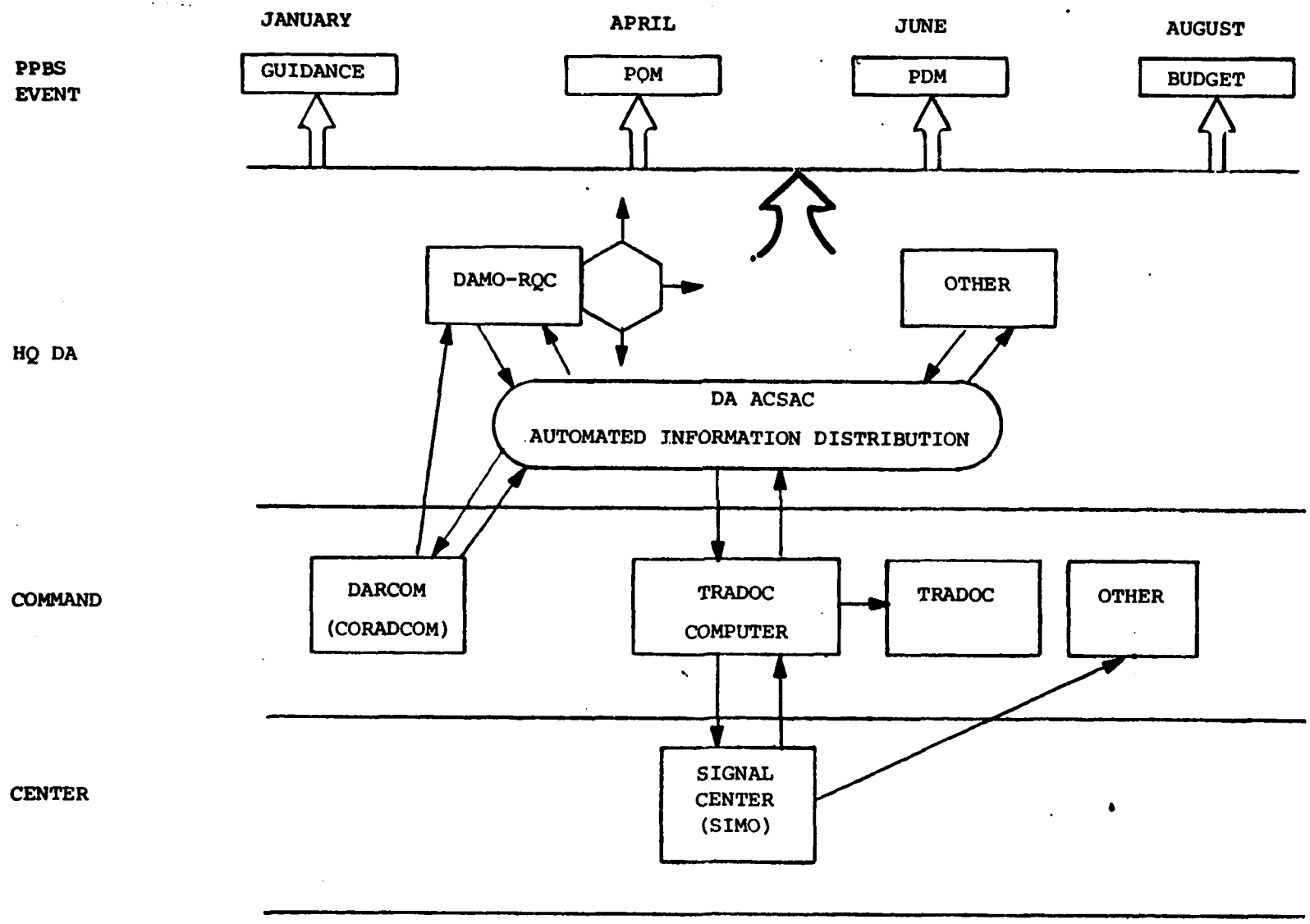


FIGURE 3-1 DISTRIBUTION DATA SCHEDULE ESTIMATE

TABLE 3-II

SCHEDULE EVENTS

JANUARY	SIMO receives set of inputs including priorities and force structure from DAMO-RQC and delivery schedules, current assets and feeder data from DARCOM. SIMO submits distribution data for basis information to support review and comment of SecDef Consolidated Guidance to Planning Programming Budgeting System (PPBS).
APRIL	SIMO receives set of inputs. SIMO submits distribution data for basis information to support PPBS Program Objective Memorandum (POM) and Five Year Defense Plan (FYDP) update.
JUNE	SIMO receives set of inputs. SIMO submits distribution data for basis information to support PPBS Program Decision Memoranda (PDM).
AUGUST	SIMO receives set of inputs. SIMO submits distribution data for basis information to support PPBS budget estimates and FYDP update.

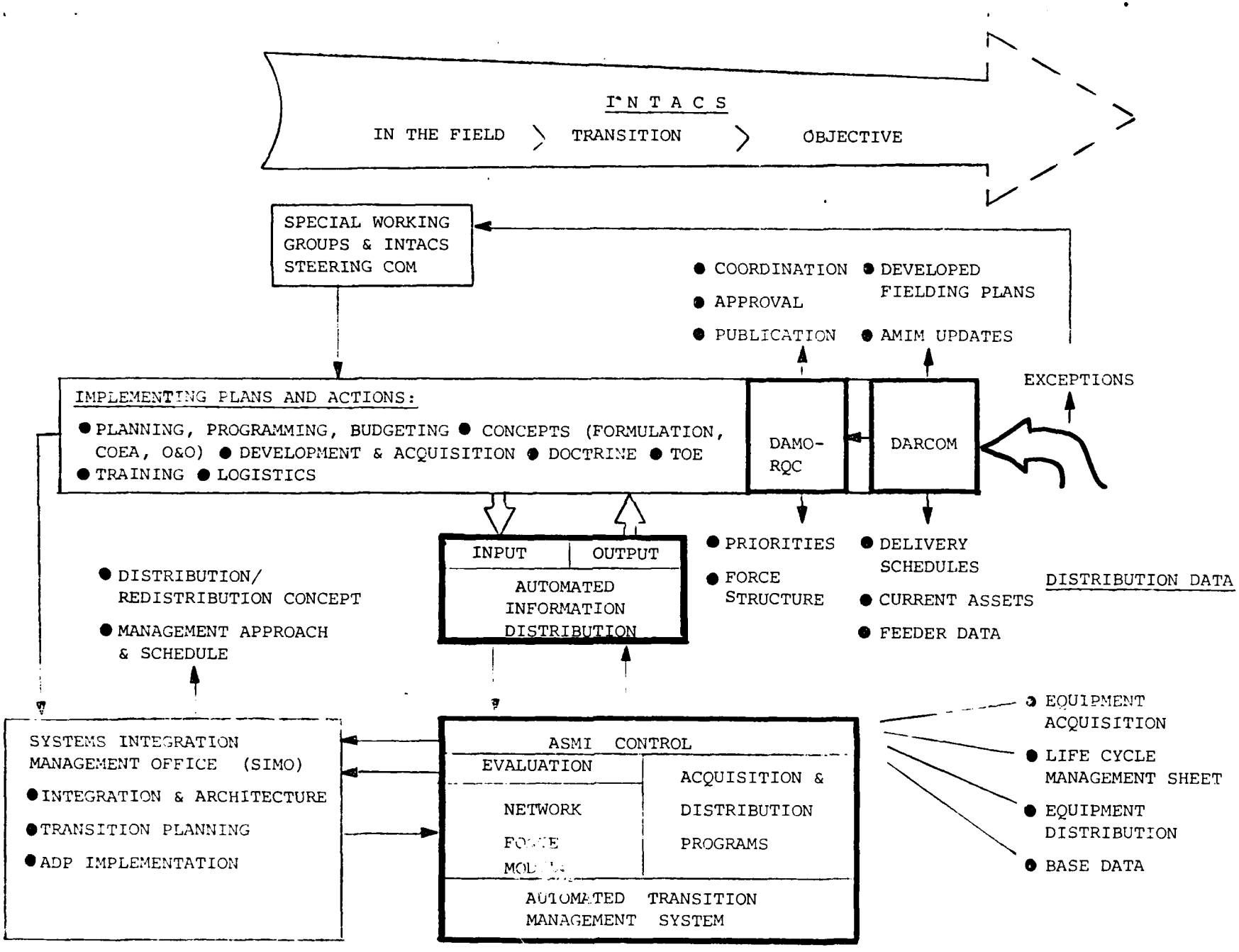


Figure 3-2 DISTRIBUTION PLANNING MANAGEMENT APPROACH

tactical communications plans and actions. The loop is closed by returning output distribution data to the same agencies. DARCOM assists TRADOC in the distribution planning effort by providing delivery schedule data, current assets and other feeder data. Based on the distribution data provided by SIMO, DARCOM develops materiel fielding plans and provides periodic AMIM updates. DAMO-RQC provides guidance pertaining to distribution priorities and force structure. All distribution/redistribution concepts are forwarded to DAMO-RQC by DARCOM for coordination, approval and publication as final distribution plans.

3. Distribution of both inputs and outputs to users is planned to be automated within DA ACSAC to assure timely receipt of basic input data and responsive delivery of output data.

4. SIMO develops and drives the Automated Transition Plan which includes base information, acquisition and distribution data.

5. SIMO analyzes inputs and evaluates the impact of significant conceptual and implementation changes to any of the phases of INTACS. Network transition force models are developed to represent the phases and are used as the basis for the distribution/redistribution concept. A series of five (5) force models for current, transition and objective systems have been developed to provide an orderly, compatible method of incorporating new equipment.

6. SIMO performs system integration and controls the outputs to insure that the distribution of TRITAC and other new equipments results in an optimal analog-digital hybrid architecture that is functional and supports the needs of the local commander. The distribution/redistribution concept is based on network transition to the INTACS objective architecture, force structure, distribution priorities, interoperability and geographical constraints. One form of the output distribution data is equipment assignment to units of the force by year.

7. When the transition and distribution plans are established, significant exceptions are resolved by special working groups and the INTACS Steering Committee (AR 15-23) using SIMO-furnished data as the baseline.

4.0 ASMI REPORTS PROCEDURES

4.1 REPORT GENERATION CONTROL PROCEDURES

A large and varied amount of reports and schedules are available to users from operating programs acting upon the SIMO Data Base. Some 27 outputs have been identified and are available through existing programs. Of these 27, those that deal with Force Models each have five outputs (F-1 through F-5). The total number will further increase by approximately ten when the fielding schedule phase is implemented.

To avoid a voluminous, unmanageable and unnecessary flow of data, each user and their particular requirements have been analyzed. From this a basic package of reports and schedules has been identified and consists of only five outputs. These outputs are relatively brief so as to require a minimum amount of time to transmit electronically. The remainder of the outputs are another format of the basic reports, a summary of the basic reports or are reference and/or audit information to be furnished upon request. The basic package, with the list of identified users, is shown in Table 4-I and will be transmitted automatically at scheduled times. The Master Users List of reports, by functional area and with illustrations, is attached as Appendix A.

4.1.1 Acquisition/Distribution

This functional area consists of eight outputs of which three will be contained in the basic package. Two are quality control assurance of the input data and the remaining three are re-formatted version of basic report outputs.

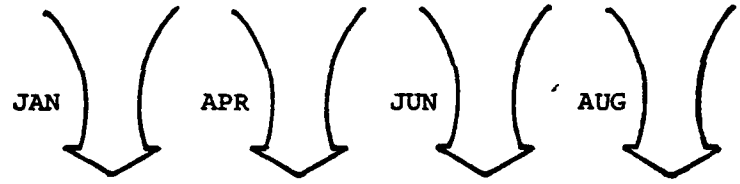
The reports in this area are the culmination of all the information in the SIMO Data Base, together with the preceding programs, and form the basis upon which budget decisions and equipment distribution plans can be made. New reports are generated each time there is a change in the budget, cost or basis of issue.

4.1.2 Equipment/Assemblages

There are seven user outputs in this functional area with all of them being available in the master form or in each Equipment Model from F-1 through F-5. None are included in the basic package but may be obtained upon request. They provide equipment reference data and the location of the items in the Force Models.

BASIC REPORT PACKAGE

AIIMSP0006	EQUIPMENT QUANTITIES (ACQUISITION)
AIIMSP0022	LIFE CYCLE MANAGEMENT SHEETS
AIIMSP0123	EQUIPMENT DISTRIBUTION
AIIMSP0048	GENERIC BOI FORCE MODEL F-5
AIIMSP0097	EQUIPMENT SUMMARY FORCE MODEL F-5



USERS	DA/ACSAC	DA/DCSOPS	DA/DCSPER
	DA/DCSLOG	DA/DCSRDA	DA/OCA
	DA/ACSI	OCSA/MISD	ASA/FM
	DARCOM	TRADOC	INSCOM
	USACC	FORSCOM	CECOM
	USASC	TRI-TAC	TSMs

TABLE 4-I BASIC REPORT PACKAGE AND DISTRIBUTION

4.1.3 POM Force

Only one program is available in this area, but it provides the Force for each of the projected five years. The Master POM is already available to all users, but the condensed force version may be obtained upon request since this will provide the Force against which acquisition and distribution schedules are run.

4.1.4 Force Models

This area consists of 11 basic user outputs with most of them being available in consolidated format and in the Force Model F-1 through F-5 versions. Two of these outputs are included in the basic package to provide the user with ready reference data on BOI and a summary of the force used.

These programs provide a variety of data on BOIs, TOEs, assemblages and components as they relate to units, both generically and by the selected force. They provide both reference data and an audit trail for the acquisition and distribution schedules. Those not included in the basic package are relatively lengthy, do not change frequently and, therefore, will be furnished only upon special request.

4.1.5 Report Request Procedure

As stated above, the basic package will be sent automatically to the listed, pre-selected users. Other agencies who have a requirement for the basic package on a periodic or one-time basis may request same from the U.S. Army Signal Center, Attn: ATZH-CDI. Other reports on the Master Users List may be obtained in the same manner.

4.1.6 Internal Procedures

The Implementation Element of SIMO receives all requests for reports to be generated through ASMI. They maintain the master schedule for periodic reports and log/schedule requests for special reports, which are all reports other than periodic.

When a request is received, the Documentation Index will be checked to see if the report has a current validation. If the validation date is more than three months old or if a data base update is involved, the AIIMS program will be executed, through a work request to AIIMS, and the report sent to the System Integration and Architecture Element of SIMO for validation. After validation, the newly validated report will be placed in the appropriate

SIMO Book (Table 1-2, INTACS Transition and Management Plan), The documentation Index will be updated, and the report will be released to the requestor.

If validation is not required, a work request will be sent to AIIMS where the report will be generated as per the procedures in paragraphs 4.1.7 and 4.2.

4.1.7 Production Control

A Production Control position within the Implementation Element of SIMO is required to provide and control distribution of the special and periodic production runs. This is a responsible position that must provide positive assurance that the data base is validated prior to the release of reports. The procedures for this position applicable to special and periodic reports follows:

1. Associate the report request with the Documentation Index to determine programs and files necessary to produce the report. Determine the validation date of the data base required for production of the requested report.
2. If the validation date is older than three months, acquire validated information or the authorization to proceed from the Implementation Element Chief.
3. Utilize the Program Documentation Record for instructions; enter the validation date, if new date is received, and execute programs to produce the report.
4. Notify those users on electronic mail service that the report is ready or deliver a copy of the report to the Implementation Chief for other users.
5. Refer to Automated Logging System (4.2) for the remaining procedure.

4.2 AUTOMATED LOGGING SYSTEM

Due to the large number of reports and the frequency with which they are generated by computer, it is necessary to have an automated logging system to control the distribution. This will permit management to insure, first; that the report is generated as per schedule, and second; that the user made access and received the report as scheduled.

When a report is generated, it will be placed into storage as a file and the name of the report and address of the storage location placed in the automated logging routine. The user will access the system by doing a

"system log-in" and then bringing up "SIMOLOG". This will activate the routine for the automated logging system. The user enters his I.D. and the report name which will automatically be transferred to a permanent log along with the time. After receiving the report, the user will log-out which will verify that the report has been received and the information will again be transferred to the permanent log. For local users, the same procedures will be used but with the SIMO ADP Operators using the customer I.D. to obtain his report. The report will then be sent to the SIMO Implementation Chief who is responsible for making the delivery. A simplified flow diagram of the system is shown in Figure 4-1.

The automated log will be printed out weekly with the copy going to the Implementation Element who will compare the automated log with the master schedule and special request log. Any discrepancies will be resolved through coordination with the user.

4.3 ELECTRONIC DISTRIBUTION AND INPUT SYSTEM

4.3.1 Outputs

To be effective, the Automated System Management Information (ASMI) process must be responsive to the users' requirements and provide a reasonably fast computer turn-around and delivery service. Particular emphasis is placed on this during the budgeting cycle when a baseline run plus several variations may be required. During this time, short suspenses develop and material may be required within two or three days.

The key to the successful operation of a responsive system is the DA ACSAC Automated Information Distribution Center as shown in Figure 4-2. The majority of the users, shown in Table 4-I, can be served through this center. Once the information is compiled and put in storage the user makes electronic access as discussed in paragraph 4.2, Automated Logging System.

4.3.2 Inputs

Also shown in Figure 4.2 is a list of input requirements that are necessary to make report updates. These are shown by the agency which has primary staff responsibility for this data. The DA ACSAC Automated Information Distribution Center will coordinate these inputs and transmit them to the TRADOC computer. SIMO will then access them and transfer the information to the appropriate data base.

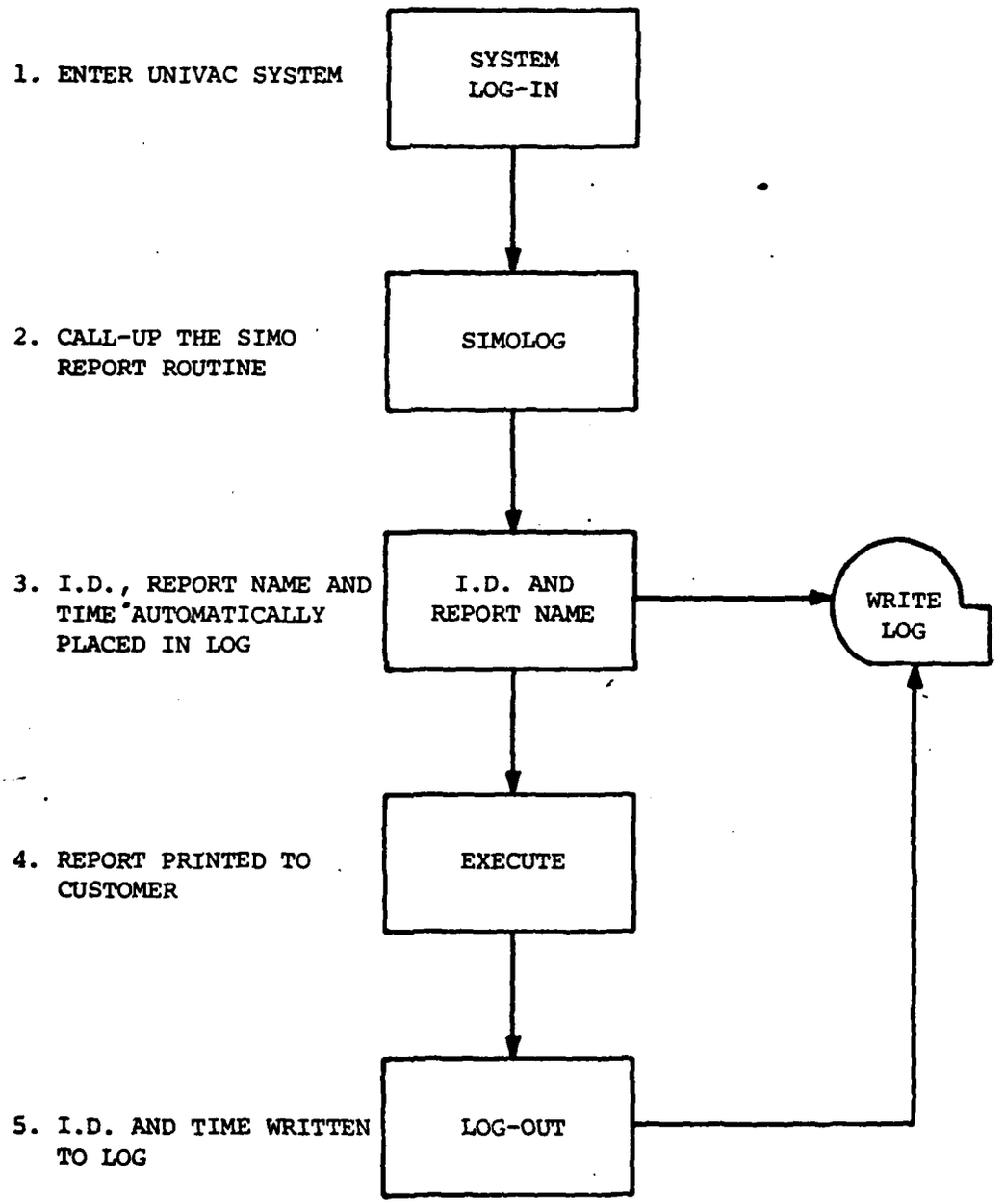


FIGURE 4-1 USER ACCESS AND LOGGING PROCEDURE

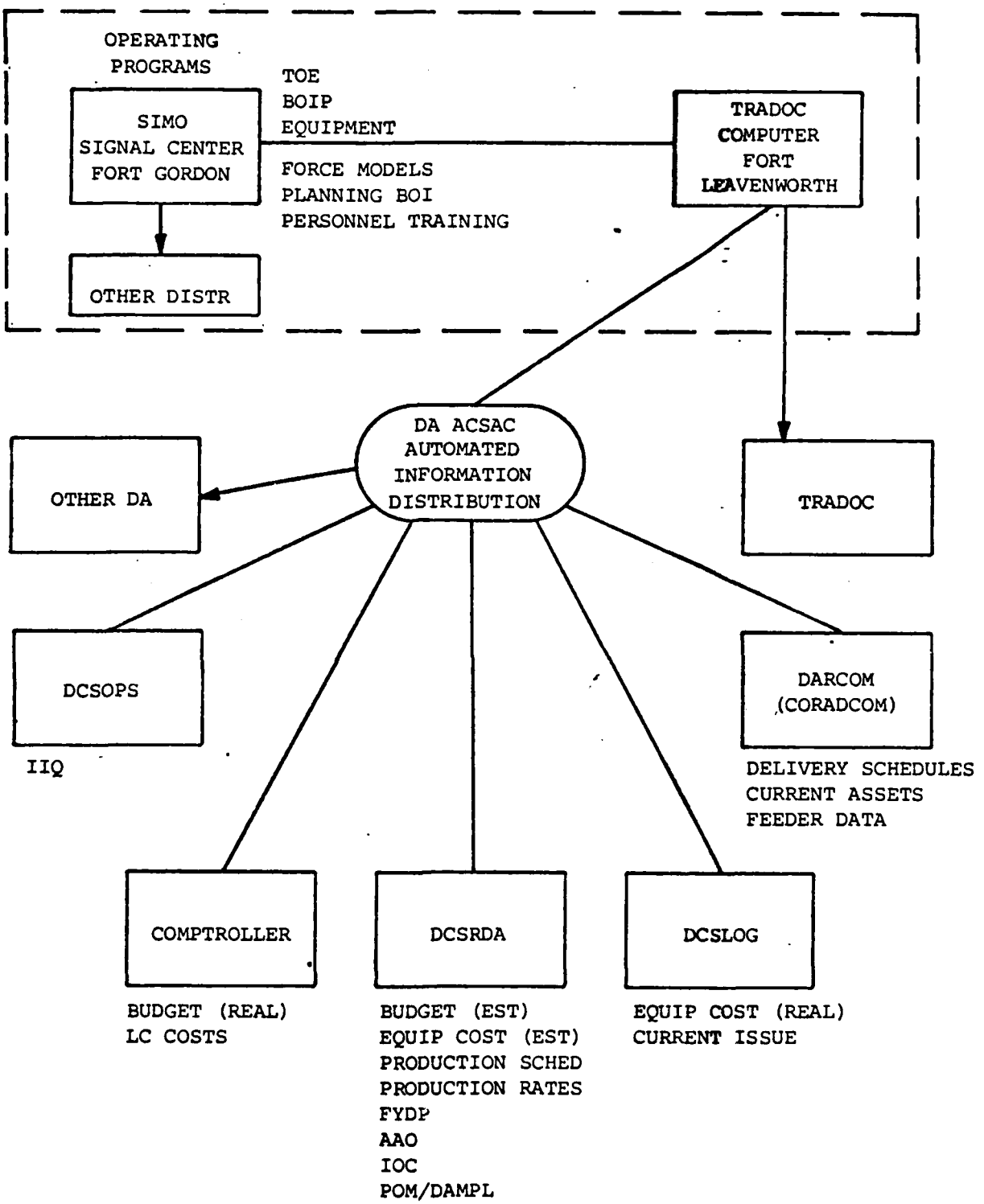


FIGURE 4-2 SIMO INPUT, OUTPUT DISTRIBUTION SYSTEM

5.0 ASMI PROGRAMS AND USERS REFERENCE HANDBOOK

This handbook is to be kept under separate cover and will provide SIMO with a ready reference source for current information on programs, reports, files and user requirements pertaining to the SIMO automated transition data base and reporting system. Also included will be planning data on system expansion and updating. The reference material itself is primarily computer generated and, as such, will be self-updating as changes in the system occur. Conversely, user lists and their report requirements will be updated through the staff action request procedure. Similarly, updates, projects, and system refinements reference information will be available as a result of planning conferences and meetings among management, operations and user personnel.

Shown below is the recommended index for the handbook with a summary of each topic to be included. Experience and operational requirements may dictate the inclusion of additional material as the system progresses, therefore the sections have been left broad enough to accommodate this material.

SECTION I - PROGRAM LISTINGS

TAB A - SIMO MASTER PROGRAM LISTING - A master index of all programs used by AIIMS. Entitled as Program Documentation Record, this index is kept current by AIIMS personnel using Program DOCP0002.

TAB B - SIMO MASTER FILE LISTING - A master index of files used by AIIMS. This index is kept current by Program DOCP0003.

TAB C - USER PROGRAM LIST - An extract from the Master Program Listing which shows only the output programs for user reports and schedules. These program numbers will be the ones by which users request information.

SECTION II - USER INFORMATION

TAB A - USER LIST - A listing of the users with organization. address, office code, point-of-contact, telephone number and assigned I.D.

TAB B - USER/REPORT/DUE DATE MATRIX - The matrix will show user I.D., program number and date program required. Example follows:

PROGRAM / OFFICE	AIIMSP0006	AIIMSP0003	AIIMSP0123	
DA DCSOPS	JAN APR JUN AUG	JAN APR JUN AUG	JAN APR JUN AUG	
DA DCSRDA	JAN APR JUN AUG	JAN APR JUN AUG	JAN APR JUN AUG	

SECTION III - PROGRAM STATUS/SCHEDULES

TAB A - AIIMS SYSTEM UPDATES AND PROJECTS (PLANNED) - Description of changes and refinements planned in the ADP system with projected start and finish dates.

TAB B - NEW REPORTS AND USERS (PLANNED) - Planned output changes or new information to be generated along with potential users.

TAB C - LOGS - Current copies of automated logs of user access.

SECTION IX - PROGRAM HEADERS - Banner sheets and samples of user program runs.

APPENDIX A

AIIMS REPORTS

FIGURE	TITLE	CLASS	DESCRIPTION	PROGRAM NR.
	ACQUISITION/DISTRIBUTION			
1	EQUIPMENT QUANTITIES	CONF	Equipment acquisition by year showing budget, cost, cummulative totals and remaining AAO each year.	AIIMSP0006
2	EQUIPMENT ACQUISITION AAO INPUT	UNCL	Prints, as a check, the input AAO used in equipment quantity program, AIIMSP0006.	AIIMSP0026
3	BUDGET/COST PRINT	CONF	Prints, as a check, the input budget and unit cost used in equipment quantity program, AIIMSP0006.	AIIMSP0023
4	LIFE CYCLE MANAGEMENT SHEET	UNCL	Each equipment planned buys by FY, unit cost, AAO, BOI, components, milestones and miscellaneous data.	AIIMSP0038
5	EQUIPMENT QUANTITY BY YEAR (ANNLIST)	CONF	Summary of programmed annual equipment buys by fiscal year.	AIIMSP0107
6	EQUIPMENT COST/BUDGET SUMMARY	CONF	Summary of projected equipment buys by year with cost/budget.	AIIMSP0118
7	EQUIPMENT DISTRIBUTION	CONF	Equipment projected distribution to specific POM units based on projected annual buys.	AIIMSP0123
8	EQUIPMENT DISTRIBUTION BY UNIT AND BUDGET YEAR	CONF	Projected distribution of future equipment acquisition to each authorized unit.	AIIMSP0009
	EQUIPMENTS/ASSEMBLAGES			
9	EQUIPMENT MASTER FILE PRINT	UNCL	Master equipment file in key order or alphabetically.	AIIMSP0030
10	IOC PROFILE PRINT	UNCL	Prints equipment with established IOC by ascending FY.	AIIMSP0037
11	ASSEMBLAGE MASTER GENERIC FILE	UNCL	Master file of assemblages and their components.	AIIMSP0040

FIGURE	TITLE	CLASS	DESCRIPTION	PROGRAM NR.
12	MASTER EQUIPMENT PACKAGES FILES	UNCL	Master file of procurement, GFE, end item and assemblage packages.	AIIMSP0042
13	END ITEM ASSOCIATED/ ANCILLARY EQUIPMENT	UNCL	Related required items by Force F1-F5.	AIIMSP0080
14	COMPONENT MASTER	UNCL	Master list of components to assemblages.	AIIMSP0083
15	EQUIPMENT MODEL FILES	UNCL	Prints equipment files F1-F5 by equipment category.	AIIMSP0077
	POM FORCE			
16	CONDENSED FORCE FILE	CONF	POM Force by year with DAMPL sequence.	AIIMSP0007
	FORCE MODELS			
17	EQUIPMENT FORCE MODEL MATCH	UNCL	Master list of equipment showing force models and each item that has a BOI available.	AIIMSP0101
18	BOIP PRINT	UNCL	Extracts BOIP units and equipment quantities from master BOIP file in a condensed format.	AIIMSP0025
19	GENERIC TOE	UNCL	Shows TOE's and authorized equipment quantities by force model.	AIIMSP0043
20	GENERIC TOE FILE WITH COMPONENT ITEMS	UNCL	Supplements AIIMSP0043 to add data base 'component only' items with zero quantities within the force.	AIIMSP0074
21	GENERIC BOI	UNCL	Equipment quantities and in which TOE's they are authorized by force model.	AIIMSP0048
22	TOE FILE PRINT	CONF	TOE force models F1-F5 by active army, national guard, reserve and total force.	AIIMSP0008
23	TOE FILE WITH COMPONENT ITEMS	CONF	Supplements AIIMSP0008 to add data base 'component only' items with zero quantities within the force.	AIIMSP0073
24	BOI FILE PRINT	CONF	BOI force models F1-F5 by active army, national guard, reserve and total force.	AIIMSP0028

FIGURE	TITLE	CLASS	DESCRIPTION	PROGRAM NR.
25	EQUIPMENT SUMMARY FILE	CONF	Force models F1-F5 showing total equipment for active army, national guard, reserve and total force.	AIIMSP0097
26	ASSEMBLAGES BY FORCE	CONF	Assemblages with components by force F1-F5 within equipment category.	AIIMSP0093
27	COMPONENTS BY FORCE	CONF	Components to assemblages by force F1-F5.	AIIMSP0095

THE EQUIPMENT QUANTITIES PROGRAM PRODUCES A FORECAST OF EQUIPMENT BUYS BY BUDGET YEARS BASED ON INPUTS OF FYDP, BUDGET AND COST RULES FOR FUTURE YEARS, AND THE EQUIPMENT IIQ OR AAD.

THE INFORMATION UNDER COLUMN HEADINGS IS :

1. KEY NUMBER - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE.
2. NOMENCLATURE - EQUIPMENT IDENTIFICATION.
3. FISCAL YEAR - BUDGET YEAR FOR EQUIPMENT FORECAST.
4. BUDGET - FIXED AND/OR CALCULATED FROM FYDP PLUS CURRENT GUIDANCE. CURRENT RULES MAY BE OBTAINED FROM SIMO.
5. SURPLUS - EXCESS OF BUDGET OVER COST BY EQUIPMENT BY FISCAL YEAR.
6. COST - EQUIPMENT UNIT COST BASED ON GIVEN INPUT OR CALCULATED BYCURRENT GUIDANCE FOR EACH FISCAL YEAR.
7. ANNUAL BUY - QUANTITY OF EQUIPMENT TO BE BOUGHT EACH FISCAL YEARBASED ON BUDGET AND COST.
8. CUM BUY - CUMULATIVE BUY OF EQUIPMENT OVER THE FISCAL YEARS.
9. AAD REMAINING - TOP FIGURE IS THE TOTAL AAD OR IIQ - SUBSEQENT FIGURES ARE REDUCED BY ANNUAL BUY.

NOTES: A. AIIMS PROGRAM AI145P0107 SUMMARIZES THIS PRINT BY TOTAL EQUIPMENT PER FISCAL YEAR.

B. AIIMS PROGRAM AI145P0123 PROVIDES THE SPECIFIC UNIT DISTRIBUTION PLAN FOR THIS EQUIPMENT FORECAST.

QUESTIONS SHOULD BE ADDRESSED TO USASC-SIMO AUTOVON 780-3182/3671.

FIGURE 1

KEY NUMBER	NOMENCLATURE	FISCAL YEAR	BUDGET	SURPLUS	COST	ANNUAL BUY	CUM BUY	AAO REMAINING
	IN MILLIONS $							
A40039	[redacted]	81	.0000	.0000	.0000	0	8	8
		82	.0000	.0000	.0000	0	8	8
		83	.0000	.0000	.0000	0	8	8
		84	.0000	.0000	.0000	0	8	8
		85	.0000	.0000	.0000	0	8	8
		86	.0000	.0000	.0000	0	8	8
		87	.0000	.0000	.0000	0	8	8
A40040	[redacted]	82	.0000	.0000	.0000	0	0	17
		83	.0000	.0000	.0000	0	0	17
		84	2.0000	.0000	.5000	4	4	13
		85	3.2000	.0000	.5333	6	10	7
		86	1.2000	.0000	.6000	2	12	5
		87	1.3200	.1200	.6000	2	14	3
		88	1.4520	.2520	.6000	2	16	1
		89	1.5972	.9972	.6000	1	17	0
A40041	[redacted]	82	.0000	.0000	.0000	0	0	1,019
		83	.0000	.0000	.0000	0	0	1,019
		84	4.0000	.0000	.0888	45	45	974
		85	5.0000	.0000	.0833	60	105	914
		86	16.0000	.0000	.2133	75	180	839
		87	17.6000	.1067	.2133	82	262	757
		88	19.3600	.1600	.2133	90	352	667
		89	21.2950	.1760	.2133	99	451	568
		90	23.4256	.1723	.2133	109	560	459
		91	25.7681	.1681	.2133	120	680	339
		92	28.3449	.1849	.2133	132	812	207
		93	31.1793	.0326	.2133	146	958	61
		94	34.2972	21.2639	.2133	61	1,019	0
A40052	[redacted]	82	.2900	.0000	.1450	2	2	358
		83	4.5000	.0000	.1800	25	27	356
		84	2.0000	.0000	.2000	10	37	331
		85	3.3000	.0000	.1833	18	55	321
		86	3.8000	.0000	.2111	18	73	303
		87	4.1800	.1689	.2111	19	92	285
		88	4.5930	.1647	.2111	21	113	266
		89	5.0578	.2022	.2111	23	136	245
		90	5.5635	.0746	.2111	26	162	222
		91	6.1198	.2087	.2111	28	190	196
		92	6.7317	.1873	.2111	31	221	168
		93	7.4048	.0159	.2111	35	256	137
		94	8.1452	.1230	.2111	38	294	102
		95	8.9597	.0930	.2111	42	336	64
		96	9.8556	5.2113	.2111	22	358	22

1A

ILLUSTRATION NOT AVAILABLE

TO BE FURNISHED

FIGURE 2

NUMBER	NOMENCLATURE	YEAR	BUDGET (IN MILLIONS $ e.g.)	COST	ANNUAL BUY
A10031	[redacted]	82	.8500	.4250	2
		83	16.7000	.2226	75
		84	5.0000	.2500	20
		85	11.0000	.2750	40
		86	11.5000	.2613	44
		87	12.6500	.2635	48
		88	13.9150	.2625	53
		89	15.3065	.2639	58
		90	16.8371	.2630	64
		91	18.5208	.2645	70
		92	20.3728	.2645	77
		93	22.4100	.2636	85
		94	24.6510	.2622	94
		95	27.1161	.2632	103
		96	29.8277	.2616	114
		97	32.8104	.2624	125
A10014	[redacted]	82	.0000	.0000	0
		83	.0000	.0000	0
		84	4.5000	1.5000	3
		85	14.5000	1.4500	10
		86	29.0000	1.4500	20
		87	31.9000	1.4500	22
		88	35.0900	1.4620	24
		89	38.5990	1.4845	26
		90	42.4539	1.4641	29
		91	46.7047	1.4595	32
		92	51.3751	1.4678	35
		93	56.5126	1.4871	38
		94	62.1638	1.4800	42
		95	68.3801	1.4548	47
		96	75.2181	1.4748	51
		97	82.7399	1.4515	57
A10015	[redacted]	82	.0000	.0000	0
		83	.0000	.0000	0
		84	20.8000	1.3866	15
		85	.0000	.0000	0
		86	.0000	.0000	0
		87	.0000	.0000	0
		88	.0000	.0000	0
		89	.0000	.0000	0
		90	.0000	.0000	0
		91	.0000	.0000	0
		92	.0000	.0000	0
		93	.0000	.0000	0
		94	.0000	.0000	0
		95	.0000	.0000	0
		96	.0000	.0000	0
		97	.0000	.0000	0
A10030	[redacted]	82	73.4000	3.1913	23
		83	.0000	.0000	0
		84	73.7200	3.2043	23

NUMBER	NOMENCLATURE	YEAR	BUDGET	COST	ANNUAL BUY
AA0038	[redacted]	89	49.2470	3.7882	13
		90	54.1717	3.8694	14
		91	59.5888	3.7243	16
		92	65.5476	3.8557	17
		93	72.1023	3.7740	19
		94	79.3125	3.7767	21
		95	87.2437	3.7932	23
		96	95.9680	3.8387	25
		97	105.5648	3.7701	28
AA0039	[redacted]	82	.0000	.0000	0
		83	34.1000	4.2625	8
		84	.0000	.0000	0
		85	.0000	.0000	0
		86	.0000	.0000	0
		87	.0000	.0000	0
		88	.0000	.0000	0
		89	.0000	.0000	0
		90	.0000	.0000	0
		91	.0000	.0000	0
		92	.0000	.0000	0
		93	.0000	.0000	0
		94	.0000	.0000	0
		95	.0000	.0000	0
		96	.0000	.0000	0
		97	.0000	.0000	0
AA0040	[redacted]	82	.0000	.0000	0
		83	.0000	.0000	0
		84	2.0000	.5000	4
		85	3.2000	.5333	6
		86	1.2000	.6000	2
		87	1.3200	.6600	2
		88	1.4520	.7260	2
		89	1.5972	.7986	2
		90	1.7569	.8784	2
		91	1.9325	.6441	3
		92	2.1257	.7085	3
		93	2.3382	.7794	3
		94	2.5720	.6430	4
		95	2.8292	.7073	4
		96	3.1121	.6224	5
		97	3.4233	.6846	5
AA0041	[redacted]	82	.0000	.0000	0
		83	.0000	.0000	0
		84	4.0000	.0888	45
		85	5.0000	.0833	60
		86	16.0000	.2133	75
		87	17.6000	.2146	82
		88	19.3600	.2151	90
		89	21.2960	.2151	99
		90	23.4256	.2149	109
		91	25.7681	.2147	120

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KEY NUMBER: AAC001 NOMENCLATURE: TRC-174 ACRONYM: DESCRIPTION: RADIO REPEATER SET

UNIT COST — QTY AAO — EQUIPMENT CATEGORY: MULTICHANNEL TRANSMISSION — FISCAL YEARS

C.0000	947	79/PRIOR	80	81	82	83	84	85	86	87	88	POST 88
UNIT PROCUREMENT	PER FY	0	0	0	2	75	20	40	0	0	0	C
	CUMULATIVE	0	0	0	2	77	97	137	0	0	0	0
	% AAO	0.0	0.0	0.0	0.2	8.1	10.2	14.4	0.0	0.0	C.0	0.0
OMA $M	PER FY	0.0	0.0	0.0	0.8	16.7	5.0	11.0	0.0	0.0	C.0	0.0
	CUMULATIVE	0.0	0.0	0.0	0.8	17.5	22.5	33.5	0.0	0.0	C.0	0.0
RDTE $M	PER FY	0.0	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	C.0	0.0
	CUMULATIVE	.0	1.5	3.0	4.5	6.0	7.5	9.0	.0	.0	.0	.0

PLANNED REQUIREMENT: 0 0 8 0 200 200 200 200 147 0 0

NO.	EQUIPMENT NUMEN	COST										
3	[illegible]C-10[illegible](V4)		0	0	24	0	600	600	600	600	441	0	0
1	[illegible]-1026		0	0	8	0	200	200	200	200	147	0	C
1	[illegible]-260		0	0	8	0	200	200	200	200	147	0	0
1	PY-68		0	0	8	0	200	200	200	200	147	0	C
1	TA-312		0	0	8	0	200	200	200	200	147	0	C
3	TC-81		0	0	24	0	600	600	600	600	441	0	C
1	TY-58		0	0	8	0	200	200	200	200	147	0	0
2	UG-84		0	0	16	0	400	400	400	400	294	0	0
1	UYK-13		0	0	8	0	200	200	200	200	147	0	0
1	UYX-15		0	0	8	0	200	200	200	200	147	0	C
3	VC-1023		0	0	24	0	600	600	600	600	441	0	0
1	[illegible]-10716		0	0	8	0	200	200	200	200	147	0	0

EXAMPLE

BDI INFORMATION	MILESTONES	BEGIN FY	REVISED	END FY	REVISED
2 FER 11000H	ADV DEV	0180		1280	
2 FER 11178H	ROC	0160		1280	
2 FER 11416H	VAL IPR	0180		1280	
3 FER 11416H	ENGR DEV	0180		1280	
5 FER 11417H	DT/OT II	0180		1280	
5 FER 11417H	DEVA IPR	0180		1280	
	TC (INITIAL)	0180		1280	
	DT/OT III	0180		1280	
	IOC	0180		1280	

*** NOTES: ACN: 53254 LINE NO: 160 SSN: 285 PROJECT OFFICE: MR. RON POUND

KEY	NOMEN/ACRONYM	ANNUAL BUY	COST/$M	% TOTAL YR COST	UNIT COST/$M	CUMULATIVE BUY	TOTAL AAO	% AAJ
FISCAL YEAR [redacted] MULTICHANNEL TRANSMISSION								
[redacted]		20	5.0000	2.5	0.2500	97	947	10.2
		3	4.5000	2.3	1.5000	3	121	2.5
		10	2.0000	1.0	0.2000	37	358	13.3
	CATEGORY SUBTOTAL		11.5000	5.8				
FISCAL YEAR 84 MULTIPLEX								
[redacted]		40	0.2500	0.1	0.0062	188	3,360	5.6
		100	0.2000	0.1	0.0020	395	5,490	7.2
		20	1.7000	0.9	0.0850	100	1,064	9.4
		50	8.0000	4.0	0.1600	193	5,184	3.7
		16	0.7500	0.4	0.0468	74	5,136	1.4
		20	0.3000	0.2	0.0150	95	1,194	8.3
		25	0.7500	0.4	0.0300	154	4,760	3.2
		20	0.7000	0.4	0.0350	90	1,064	8.5
		25	0.5500	0.3	0.0260	293	7,192	4.1
		18	0.5000	0.3	0.0277	204	3,648	5.6
		10	0.8000	0.4	0.0800	78	1,690	4.6
		10	1.0000	0.5	0.1000	56	1,109	5.0
		20	1.1000	0.6	0.0550	40	228	17.5
		20	1.0000	0.5	0.0500	138	3,597	3.3
	CATEGORY SUBTOTAL		17.7000	9.1				
FISCAL YEAR [redacted] TACTICAL COMMUNICATIONS CONTROL FACILITIES								
[redacted]		10	39.0000	19.6	3.9000	25	110	22.7
		13	31.0000	15.6	2.3846	33	376	8.8
	CATEGORY SUBTOTAL		70.0000	35.2				
FISCAL YEAR [redacted] SWITCHING								
[redacted]		23	73.7000	37.1	3.2043	46	102	45.1
		4	2.0000	1.0	0.5000	4	17	23.5
		45	4.0000	2.0	0.0888	45	1,019	4.4
		13	6.5000	3.3	0.5000	13	302	4.3
	CATEGORY SUBTOTAL		86.2000	43.4				
FISCAL YEAR [redacted] TERMINALS								

EQUIPMENT COST/BUDGET SUMMARY

DATE 01/12/81 AIMSPO118 PAGE 1

KEY NUMBER NOMENCLATURE

FISCAL YEAR

DOLLARS IN MILLIONS AND QUANTITIES IN WHOLE UNITS

		PRIOR FY-82	FY-82	FY-83	FY-84	FY-85	FY-86	FY-87	FY-88	FY-89	FY-90	POST FY-90
AAC001	TRC-174											
BUDGET DOLLARS		0.0000	0.8500	16.7000	5.0000	11.0000	11.5000	12.6500	13.9150	15.3065	16.8371	N/A
EQUIPMENT COST(EST)		0.0000	0.4250	0.2226	0.2500	0.2750	0.2613	0.2613	0.2613	0.2613	0.2613	0.2613
QUANTITY		0	2	75	20	40	44	48	53	58	64	543
ACT FUNDING		0.0000	0.8500	16.7000	5.0000	11.0000	11.5000	12.5455	13.8523	15.1591	16.7273	141.8859
CUM SURPLUS		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1045	0.0627	0.1474	0.1098	N/A
AAC-BUDGET	141.8859	401.6250	193.6620	212.5000	222.7500	200.1550	187.6134	173.7645	158.6091	141.8859	123.5949	103.4749
AAC014	TRC-170(V3)											
BUDGET DOLLARS		0.0000	0.0000	0.0000	4.5000	14.5000	29.0000	31.9000	35.0900	38.5990	42.4589	N/A
EQUIPMENT COST(EST)		0.0000	0.0000	0.0000	1.5000	1.4500	1.4500	1.4500	1.4500	1.4500	1.4500	1.4500
QUANTITY		0	0	0	3	10	20	22	24	26	16	0
ACT FUNDING		0.0000	0.0000	0.0000	4.5000	14.5000	29.0000	31.9000	34.8000	37.7000	0.0000	0.0000
CUM SURPLUS		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2900	0.8990	19.2589	N/A
AAC-BUDGET	0.0000	0.0000	0.0000	177.0000	156.6000	127.6000	95.7000	60.9000	23.2000	0.0000	0.0000	103.4748
AAC015	TRC-170(V2)											
BUDGET DOLLARS		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
EQUIPMENT COST(EST)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
QUANTITY		0	0	0	0	0	0	0	0	0	0	0
ACT FUNDING		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CUM SURPLUS		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
AAC-BUDGET	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	103.4749
AAC038	TTC-39(V1)											
BUDGET DOLLARS		0.0000	73.4000	0.0000	73.7000	36.0000	37.0000	40.7000	44.7700	49.2470	0.0000	N/A
EQUIPMENT COST(EST)		0.0000	3.1913	0.0000	3.2043	3.6000	3.7000	3.7000	3.7000	3.7000	0.0000	0.0000
QUANTITY		0	23	0	23	10	10	11	12	13	0	0
ACT FUNDING		0.0000	73.4000	0.0000	73.7000	36.0000	37.0000	40.7000	44.4000	0.0000	0.0000	0.0000
CUM SURPLUS		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3700	1.1470	0.0000	N/A
AAC-BUDGET	0.0000	252.1127	0.0000	179.4408	165.6000	133.2000	92.5000	48.1000	0.0000	0.0000	0.0000	103.4748
AAC039	TTC-39(V2)											
BUDGET DOLLARS		0.0000	0.0000	34.1000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
EQUIPMENT COST(EST)		0.0000	0.0000	4.2625	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
QUANTITY		0	0	8	0	0	0	0	0	0	0	0
ACT FUNDING		0.0000	0.0000	34.1000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CUM SURPLUS		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
AAC-BUDGET	0.0000	0.0000	34.1000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

FORMAT

DATE 03/17/81 EQUIPMENT DISTRIBUTION BY BUDGET YEAR TO UNIT AIMSP0123 PAGE 3

KEY NUMBER KEY NOMENCLATURE KEY DESCRIPTION

A80038 TTC-39(V1) AUTOMATIC CENTRAL OFFICE

DAMPL	LOC	UIC	UNIT-ID	UNIT NOMENCLATURE	SRC	QTY REQ	BLC PRI	ANNUAL EQUIPMENT ALLOCATION 82	83	84	85	86	87	88	89	90	POST 90
				SIG BN AREA (1*3)	114154620	0003		3									
				SIG BN AREA (1*3)	114154620	0003		3									
				SIG BN AREA (1*3)	114154520	0003		3									
				SIG BN AREA (1*3)	114154520	0003		3									
				C3T SIG TELECOM CO	114174620	0001		1									
				SIG BN AREA (1*3)	114154520	0003		3									
				SIG BN AREA (1*3)	114154520	0003		3									
				SIG CMD OP BN,A3N-CORP	114351900	0001		1									
				SIG BN AREA (1*3)	114154520	0003		3									
				SIG BN AREA (1*3)	114154520	0003				3							
				SIG BN AREA (1*3)	114154620	0003				3							
				SIG BN AREA (1*3)	114154620	0003				3							
				SIG BN AREA (1*3)	114154520	0003				3							
				SIG BN AREA (1*3)	114154620	0003				3							
				SIG BN AREA (1*3)	114154620	0003				3							
				SIG BN AREA (1*3)	114154520	0003				3							
				SIG BN AREA (1*3)	114154620	0003				2	1						
				SIG BN AREA (1*3)	114154620	0003					3						
				SIG BN AREA (1*3)	114154520	0003					3						
				SIG BN AREA (1*3)	114154620	0003					3						
				C3T SIG TELECOM CO	114174620	0001						1					
				C3T SIG TELECOM CO	114174520	0001						1					
				C3T SIG TELECOM CO	114174520	0001						1					
				C3T SIG TELECOM CO	114174620	0001						1					
				SIG BN AREA (1*3)	114154520	0003						3					
			SPEC REQ		119014000	0001						1					
				SIG BN AREA (1*3)	114154620	0003						2	1				
				SIG BN AREA (1*3)	114154620	0003							3				
				SIG BN AREA (1*3)	114154620	0003							3				
				SIG BN AREA (1*3)	114154620	0003							3				
				SIG BN AREA (1*3)	114154620	0003							1	2			
				C3T SIG TELECOM CO	114174510	0001								1			
				C3T SIG TELECOM CO	11417H620	0001								1			
				C3T SIG TELECOM CO	11417H620	0001								1			
				C3T SIG TELECOM CO	11417H820	0001								1			
			TOTAL ANNUAL BUY BY YEAR					23		23	10	10	11	6			
														SURPLUS		0019	

THE EQUIPMENT DISTRIBUTION BY UNIT AND BUDGET YEAR LISTS THE UNIT AND ALL THE SPECIFIED EQUIPMENT FORECAST FOR THAT UNIT BY BUDGET YEAR.

THE INFORMATION UNDER COLUMN HEADINGS IS :

1. DAMPL - DEPARTMENT OF THE ARMY MASTER PRIORITY LIST SEQUENCE NUMBER.
2. LOC - ABBREVIATED GEOGRAPHICAL LOCATION.
3. UIC - UNIT IDENTIFICATION CODE.
4. UNIT-ID - UNIT NUMERICAL DESIGNATION.
5. UNIT NOMENCLATURE - UNIT NAME.
6. SRC - STANDARD REQUIREMENT CODE - UNIT TOE NUMBER.
7. KEY NUMBER - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE.
8. KEY NOMENCLATURE/KEY DESCRIPTION - EQUIPMENT IDENTIFICATION.
9. QTY REQ - AUTHORIZED AMOUNT OF EQUIPMENT PER UNIT.
10. YEAR BUDGETED - AMOUNT OF EQUIPMENT BY FISCAL YEAR.

NOTE: INFORMATION FOR THIS SUMMARY IS DERIVED FROM AIIMS PROGRAM AIIMSP0123, EQUIPMENT DISTRIBUTION BY BUDGET YEAR TO UNITS.

QUESTIONS SHOULD BE ADDRESSED TO USASC-SIMD AUTOVON 780-3182/3671.

FIGURE 8

DAMPL LOC UIC UNIT-ID UNIT NOMENCLATURE SRC

CO SPECIAL AMMO GS 090684600

KEY NUMBER	KEY NOMENCLATURE	KEY DESCRIPTION	QTY REQ	QTY PRI	YEAR BUDGETED 82	83	84	85	86	87	88	89	90	POST 90
		TAC DGTL FACSIMILE	0001				1							
		MOD RECORD TFC TML (SNGL)	0001						1					

DAMPL LOC UIC UNIT-ID UNIT NOMENCLATURE SRC

SIG BN,AIR DIV 110354000

KEY NUMBER	KEY NOMENCLATURE	KEY DESCRIPTION	QTY REQ	QTY PRI	YEAR BUDGETED 82	83	84	85	86	87	88	89	90	POST 90
AADC41	SB-3855	AUTO SWBD (30L)	0007				7							
AADC50	KY-90	DGTL NET RAD INT UNIT	0006				6							
AAD110		933 FACT COMM CEN MODULES	0002					2						
AAD134	UXC-4	TAC DGTL FACSIMILE	0006		6									
AAD137		MOD FACT COMM CEN	0002					2						
AAD141	TA-956	DIG NON-SEC TP	0230			230								
AAD146		MOD RECORD TFC TML (SNGL)	0014					14						

DAMPL LOC UIC UNIT-ID UNIT NOMENCLATURE SRC

MIC BN SUPPLY & SVC 281664500

KEY NUMBER	KEY NOMENCLATURE	KEY DESCRIPTION	QTY REQ	QTY PRI	YEAR BUDGETED 82	83	84	85	86	87	88	89	90	POST 90
AAD146		MOD RECORD TFC TML (SNGL)	0002					2						

SAMPL LOC UIC UNIT-ID UNIT NOMENCLATURE SRC

SIG BN AREA (1*3) 11415H620

KEY NUMBER	KEY NOMENCLATURE	KEY DESCRIPTION	QTY REQ	PRI	YEAR BUDGETED 82	83	84	85	86	87	88	89	90	POST 90
A0001	TRC-174	RADIO REPEATER SET	0029		2	27								
A0038	TTC-39(V1)	AUTOMATIC CENTRAL OFFICE	0003		3									
A0052	TRC-173	RADIO TERMINAL SET	0011		2	9								
A0058	TSQ-111(V1)	COMM NODAL CTRL ELEM	0003			3								
A0059	TTC-42(V1)	AUTO TP CEN OFFICE (75L)	0010				10							
A0060	TD-1219	H/S PULSE RESTORER	0120		43	72								
A0061	TD-1218	L/S PULSE RESTORER	0105		45	60								
A0075	TYQ-15	COMM SYS CTRL ELEM	0001					1						
A0080	KY-90	DGTL NET RAD INT UNIT	0004				4							
A0110		MOD TACT COMM CEN W/ULMS	0003					3						
A0118	TSQ-111(V3)	COMM NODAL CTRL ELEM	0010			10								
A0120	TD-1236	REMOTE MUX COMBINER	0122		43	79								
A0134	UXC-4	TAC DGTL FACSIMILE	0001		1									
A0137		MOD TACT COMM CEN	0004					4						
A0141	TA-956	DIG VOX-SEC TP	0531				456	125						
A0143	TD-1233	REMOTE LOOP GROUP MUX	0158		29	100	25	4						
A0146	TRC-175	RADIO TERMINAL SET	0002			2								
A0166		MOD RECORD TFC TML (SNGL)	0018					18						

SAMPL LOC UIC UNIT-ID UNIT NOMENCLATURE SRC

CO SUPPLY&SERVICE DS 29167H500

KEY NUMBER	KEY NOMENCLATURE	KEY DESCRIPTION	QTY REQ	PRI	YEAR BUDGETED 82	83	84	85	86	87	88	89	90	POST 90
A0166		MOD RECORD TFC TML (SNGL)	0001					1						

SAMPL LOC UIC UNIT-ID UNIT NOMENCLATURE SRC

DET MSL MMD SPT-HJ 06500H5AA

KEY NUMBER	KEY NOMENCLATURE	KEY DESCRIPTION	QTY REQ	PRI	YEAR BUDGETED 82	83	84	85	86	87	88	89	90	POST 90

THE MASTER EQUIPMENT LIST IS A COMPLETE LIST OF INTACS EQUIPMENT FOR CURRENT, TRANSITION AND OBJECTIVE SYSTEMS. IT IS THE ATIMS EQUIPMENT DATA BASE FROM WHICH ALL OTHER LISTS AND SCHEDULES ARE DERIVED.

THE FOLLOWING INFORMATION IS FURNISHED:

1. KEY # - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE.
2. NOMENCLATURE, ACRONYM, DESCRIPTION - EQUIPMENT IDENTIFICATION.
3. EOIP # - BASIS OF ISSUE PLAN FOR FUTURE EQUIPMENT.
4. LINE # - LIN-ALPHAMERIC LINE ITEM NUMBER IDENTIFICATION OF A GENERIC NOMENCLATURE.
5. SSN - STANDARD STUDY NUMBER - FUNDING NUMBER ASSIGNED TO APPROVED PROCUREMENT ITEMS.
6. ACN - ACTION CONTROL NUMBER ASSIGNED TO TRACK ALL ACTIONS PERTAINING TO A PROGRAM.
7. FUND YR - INITIAL FUNDING YEAR.
8. IOC - INITIAL OPERATIONAL CAPABILITY - TIME WHEN EQUIPMENT AND TRAINED PERSONNEL CAN BE DEPLOYED.

LAST REVISION TO THE DATA BASE WAS MADE ON (REVESION DATE) (** APR 30,1981 **).

THIS REPORT IS AVAILABLE SORTED BY ANY COLUMN IT CONTAINS AND BY EQUIPMENT CATEGORY IN COMBINATION WITH THE COLUMN SORTS.

QUESTIONS SHOULD BE ADDRESSED TO JSASC-SIMD AUTOVON 730-3182/3671.

FIGURE 9

KEY NO.	NOMENCLATURE	ACRONYM	DESCRIPTION	BOIP NO.	LINE NO.	SSN	FUND ACN	FUND YR	IOC	REMARKS
443031	TRC-176		RADIO REPEATER SET	790340	Z57160		53353	80	285	
443032			ACS COMM ASBL				28939	82	285	
443033	TSC-93		TACSAT M/C TERMINAL (SHF)	779081	S34995	K47600	20896	77	479	
443034	TD-977	ADC	DIGITAL COMBINER		A 5943		13707	77	N/A	
443035	TRC-161		RADIO TERMINAL SET		Q92899		35332	77	481	
443036	MSC-116		TACSAT CONTROL CENTER		S34539		20896	77	479	
443037	TRC-152		RADIO REPEATER SET		R78057		35332	77	481	
443038			ACR CP COMM TRACK				28938	82	186	
443039	TSC-65A		TACSAT M/C TERMINAL (SHF)				20896	00	482	
443040	TSC-93A		TACSAT M/C TERMINAL (SHF)		S34895		20896	00	482	
443041			ACR CP COMM SPT TRACK				28938	82	186	
443042			ACS CP COMM TRACK				28938	82	186	
443043			A/M BDE CP COMM TRACK				28938	82	186	
443044	TRC-170(V3)		TAC DIGITAL TROPO IKF		Z58188		00000	00	N/A	
443045	TRC-170 (2)		TAC DIGITAL TROPO		Z58187		00000	00	N/A	
443046	TSC-65	MCDS	M/C TACSAT SHF DBJ 36CM				14939	83	193	
443047	TSC-64	MCDS	M/C TACSAT SHF DBJ 72CH				14939	83	193	
443048			DIV SSD COMM ASBL				28939	82	265	
443049	TSC-65		TACSAT M/C TERMINAL	780252	S52242	B83507	20896	37	379	
443050	TSC-65		TACSAT M/C TERMINAL (SHF)	720508	S52242	K47702	20896	77	379	
443051		MSC	MOBILE SUB CENTRAL (MSE)		Z43586		56190	85	488	
443052	TD-980		PULSE FIRM RESTORER	790007	P89852		13707	77	380	
443053	M577		M577 TAC CP				45551	78	N/A	
443054	SRC-133(V6)	BAND IV	RADIO SET		Z54341		35325	77	N/A	
443055			BN CP COMM TRACK				28938	82	186	
443056	TD-1065	MSSDS	M/S SERIAL DATA BUFFER	690492	M35599		53353	77	480	
443057	SG-1139		DIGITAL DATA GENERATOR				45549	81	183	
443058	TD-1069	TDM	TIME DIVISION DIGITAL MUX	690491	T21130		53353	77	183	
443059	TSC-97		DATA MULTIPLEX SET	790187	Z20550		13357	79	N/A	
443060			DTOC COMM ASBL				28939	82	285	
443061			DTOC STAFF COMM ASBL				28939	82	285	
443062			DISCOM COMM ASBL				28939	82	285	
443063			FASC/SPT BN COMM ASBL				28939	82	265	
443064			DIV/BDE COMM ASBL				28939	82	285	
443065			DIV BICC COMM ASBL				28939	82	285	
443066			BN COMM ASBL				28939	82	285	
443067	TTC-39(V1)	CS	AUTOMATIC CENTRAL OFFICE	790046	Z14284		22720	81	383	
443068	TTC-39(V2)	CS	AUTOMATIC CENTRAL OFFICE	790067	Z14295	B63900	22720	81	383	
443069	TTC-42(V2)	ULCS	AUTO TP CEN OFFICE (150L)	780250	Z94902		32819	82	186	
443070	SB-3865	ULCS	AUTO SWBD (30L)	780251	Z94980		32819	82	186	
443071	SB-22		SWBD TELEPHONE MANUAL		U81707		23470	75	281	
443072			CTOC COMM ASBL				28939	82	285	
443073			CTOC STAFF COMM ASBL				28939	82	285	
443074	S-250		SHELTER				00000	00	N/A	
443075		BCS	BURST COMM SYS(OUT-STA)				12779	82	482	
443076	TSC-99	BCS	COMM CENTRAL (BASE STA)	760090	Z11114		12779	82	182	
443077	SRC-122(V2)		MOD TTY SET		Q90100		17840	77	282	
443078	TRC-173		RADIO TERMINAL SET	790041	Z57270		53353	82	285	
443079	C-6720	BNCD	COMM CONTROL UNIT		E95072				261	
443080		CSPE	COMM SYSTEM PLANNING ELEM				32819	83	N/A	
443081	PRC-113		RADIO SET PORTABLE UHF/AM	770068	Z55876		53353	78	284	
443082	TTC-39	MSG SW	CENTRAL MSG SWITCH AUTO	760098	Z42430	B74100	32819	81	182	
443083	DK-54		COMSEC SHELTER	790151	Z15281		32819	00	N/A	
443084	TSG-111(V1)	CNCE I	COMM NODAL CTRL ELEM	770002	Z16406	B69200	32819	80	285	
443085	TTC-42(V1)	ULCS	AUTO TP CEN OFFICE (75L)	770021	Z94981		32819	82	186	

FIGURE 9A

BOIP LINE FUND

KEY	NOMENCLATURE	DTR	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
AA0146	MSC-65							X											
AA0372	TSD-86A							X											
AA0044	BCS								X										
AA0313	TSC-93A								X										
AA0039	TSC-86A								Y										
AA0328	SS-1169									X									
AA0329	TD-1169									X									
AA0447	TA-984									X									
AA0117	CA-11230									X									
AA0141	TA-954									X									
AA0148	KY-78										X								
AA0144	AS-3460V										X								
AA0178	TD-1269										X								
AA0105	KG-93										X								
AA0103	KGX-83										X								
AA0102	KGX-82										X								
AA0112	KG-94										X								
AA0109	KG-81										X								
AA0106	KG-92										X								
AA0390	KY-58										X								
AA0389	TTC-39(V2)										X								
AA0388	TTC-39(V1)										X								
AA0136	DCR											X							
AA0199	DE-315											X							
AA0221	TA-978											X							
AA0149	KG-93												X						
AA0155	PRC-XX												X						
AA0156	GRC-XX												X						
AA0146	SST-MPTT													X					
AA0271	C-10717													X					
AA0270	C-10716													X					
AA0095	PRC-113													X					
AA0134	GXC-6														X				
AA0100	GYC-7															X			
AA0469	PLRS															X			
AA0471	PLRS															X			
AA0470	PLRS															X			
AA0396	PLRS															X			
AA0398	PLRS															X			
AA0397	PLRS															X			
AA0402	PLRS															X			
AA0401	PLRS															X			
AA0400	PLRS															X			
AA0399	PLRS															X			
AA0206	CA-3591																X		
AA0118	TSC-111(V3)																	X	
AA0052	TRC-173																	X	
AA0056	TSC-111(V1)																	X	
AA0037	BN COMM ASBL																	X	
AA0045	CTOC STAFF COMM ASBL																	X	
AA0044	CTOC COMM ASBL																	X	
AA0042	DTOC STAFF COMM ASBL																	X	
AA0031	DTOC COMM ASBL																	X	
AA0036	DIV BICC COMM ASBL																	X	

			AA0090	KY-68	DIG SECURE TP 1
			AA0094	KOI-18	TAPE READER 1
			AA0112	KG-84	DED LOOP ENCYP DEVICE 1
			AA0115	KYK-13	KEY GUN 1
			AA0116	KYX-15	NET CONTROL DEVICE 1

FORCE	VA KEY NO	ASSEMBLAGE NOMENCLATURE / DESCRIPTION	PACKAGE NO.	PACKAGE NOMENCLATURE / DESCRIPTION	QUANTITY
FS	AA0035	DIV/BDE COMM ASBL	AA0146		MOD RECORD TEC TML (SNGL) 1
			AA0149	KG-93	TRUNK ENCYP DEVICE 1
			AA0178	TD-1288	VHF TRC MULTICPLR 2 PORT 1
			AA0183		TACSAT S/C TERMINAL 1
			AA0193	GRC(I)(VS)	RADIO SET VEHICLE 3
			AA0572		FILL CABLE (CRYPTO) 1
FS	AA0036	DIV RICC COMM ASBL	AA0041	SB-3865	AUTO SWBD (30L) 1
			AA0063		ACCESS UNIT 2
			AA0090	KY-68	DIG SECURE TP 1
			AA0094	KOI-18	TAPE READER 1
			AA0099	TYC-11	UNIT LEVEL MSG SWITCH 1
			AA0102	MGX-82	LOOP KEY GEN CONTROL 1
			AA0108	KG-82	LOOP KEY GENERATOR 8
			AA0115	KYK-13	KEY GUN 1
			AA0116	KYX-15	NET CONTROL DEVICE 1
			AA0146		MOD RECORD TEC TML (SNGL) 1
			AA0149	KG-93	TRUNK ENCYP DEVICE 1
			AA0178	TD-1288	VHF TRC MULTICPLR 2 PORT 1
			AA0242	MGF-92	FRAME (LKG) 1
			AA0246	MGD-78	TRANSITION UNIT(W/TYC-11) 1
			AA0247	KYB-78	DSVT MOD (W/TYC-11) 4
FS	AA0037	BN COMM ASBL	AA0043	SB-22	SWBD TELEPHONE MANUAL 1
			AA0115	KYK-13	KEY GUN 1
			AA0150		SECURE CONVERTER (1 PORT) 1
			AA0178	TD-1268	VHF TRC MULTICPLR 2 PORT 1
			AA0193	GRC(I)(VS)	RADIO SET VEHICLE 3
			AA0572		FILL CABLE (CRYPTO) 1
FS	AA0038 TTC-39(V1)	AUTOMATIC CENTRAL OFFICE	AA0090	KY-68	DIG SECURE TP 2
			AA0094	KOI-18	TAPE READER 1
			AA0102	MGX-82	LOOP KEY GEN CONTROL 3
			AA0103	MGX-83	AUTO KEY DISTR GEN 2
			AA0104	MGX-84	INTERFACE CONTROL UNIT 2
			AA0105	KG-83	KEY VARIABLE GENERATOR 2
			AA0108	KG-82	LOOP KEY GENERATOR 19
			AA0109	KG-81	TRUNK ENCYP DEVICE 6
			AA0115	KYK-13	KEY GUN 2
			AA0116	KYX-15	NET CONTROL DEVICE 2
			AA0232	MGF-85	COMMUN EQUIP FRAME 1
			AA0233	MGF-91	FRAME (TTD) 2
			AA0236	MYP-71	RECHARGER BTRY PWR SUPPLY 2
			AA0239	KTK-18	CODE CHANGER KEY 1
			AA0248	KG-82 DVP	LOOP KEY GENERATOR (DVP) 13
			AA0254	MGX-82 DVP	LOOP KEY GEN CONTROL(DVP) 1
			AA0572		FILL CABLE (CRYPTO) 1
FS	AA0039 TTC-39(V2)	AUTOMATIC CENTRAL OFFICE	AA0090	KY-68	DIG SECURE TP 2
			AA0092	TA-312	TELEPHONE SET 1

FORCE	YR	KEY NO	ASSEMBLAGE NOMENCLATURE / DESCRIPTION	PACKAGE NO.	PACKAGE NOMENCLATURE / DESCRIPTION	QUANTITY
FS	AA	AA0039	TTC-39(V2) AUTOMATIC CENTRAL OFFICE	AA0102	HGX-82 LOOP KEY GEN CONTROL	5
				AA0103	HGX-83 AUTO KEY DISTR GEN	2
				AA0104	HGX-84 INTERFACE CONTROL UNIT	4
				AA0105	KG-83 KEY-VARIABLE GENERATOR	2
				AA0108	KG-82 LOOP KEY GENERATOR	40
				AA0109	KG-81 TRUNK-ENCYP DEVICE	6
				AA0115	KYK-13 KEY GUN	1
				AA0116	KYX-15 NET CONTROL DEVICE	1
				AA0227	HGF-82 COMMON EQUIP FRAME	1
				AA0229	ENV CON UNIT-18K-BTU	2
				AA0233	HGF-91 FRAME (TED)	2
				AA0236	HYP-71 RECHARGER BTRY PWR SUPPLY	4
				AA0239	KIK-18 CODE CHANGER KEY	1
				AA0248	KG-82 DVP LOOP KEY GENERATOR (DVP)	3
				AA0254	HGX-82 DVP LOOP KEY GEN CONTROL (DVP)	24
				AA0572	FILL CABLE (CRYPTO)	1
FS	AA	AA0040	TTC-42(V2) AUTO TP GEN OFFICE (150L)	AA0090	KY-68 DIG SECURE TP	1
				AA0094	KOI-18 TAPE READER	1
				AA0108	KG-82 LOOP KEY GENERATOR	12
				AA0109	KG-81 TRUNK-ENCYP DEVICE	6
				AA0115	KYK-13 KEY GUN	1
				AA0116	KYX-15 NET CONTROL DEVICE	1
				AA0233	HGF-91 FRAME (TED)	1
				AA0236	HYP-71 RECHARGER BTRY PWR SUPPLY	1
				AA0238	KGX-93 AUTO KEY DISTR CEN	2
				AA0239	KIK-18 CODE CHANGER KEY	1
				AA0241	HGF-94 FRAME (TED)	1
				AA0248	KG-82 DVP LOOP KEY GENERATOR (DVP)	4
				AA0572	FILL CABLE (CRYPTO)	1
				AA0576	HGF-93 FRAME (AKDC)	2
FS	AA	AA0041	SB-3865 AUTO SWBD (30L)	AA0090	KY-68 DIG SECURE TP	1
				AA0094	KOI-18 TAPE READER	1
				AA0115	KYK-13 KEY GUN	1
				AA0116	KYX-15 NET CONTROL DEVICE	1
				AA0149	KG-93 TRUNK ENCYP DEVICE	1
				AA0236	HYP-71 RECHARGER BTRY PWR SUPPLY	1
				AA0464	TD-1235 LOOP GROUP MUX	1
				AA0572	FILL CABLE (CRYPTO)	1
FS	AA	AA0044	CTOC COMM ASBL	AA0077	TACTICAL DOC COPIER	1
				AA0090	KY-68 DIG SECURE TP	1
				AA0094	KOI-18 TAPE READER	1
				AA0099	TYC-11 UNIT LEVEL MSG SWITCH	1
				AA0102	HGX-82 LOOP KEY GEN CONTROL	1
				AA0108	KG-82 LOOP KEY GENERATOR	8
				AA0115	KYK-13 KEY GUN	1
				AA0116	KYX-15 NET CONTROL DEVICE	1
				AA0141	TA-954 DIG NON-SEC TP	1
				AA0146	MOD RECORD SEC INF (SNGL)	2
				AA0149	KG-93 TRUNK ENCYP DEVICE	1

FORCE	YR	KEY NO	ASSEMBLAGE NOMENCLATURE / DESCRIPTION	PACKAGE NO.	PACKAGE NOMENCLATURE / DESCRIPTION	QUANTITY
FS	AA	AA0044	CTOC COMM ASBL	AA0178	TD-1288 VHF TRC MULTICPLR 2 PORT	1

ASSEMBLAGE PACKAGE #	PACKAGE NOMENCLATURE / DESC		KEY NO.	COMPONENT NOMENCLATURE	/ DESC	QUA
AA0038	TTC-39(V1)	AUTOMATIC CENTRAL OFFICE	AA0572		FILL CABLE (CRYPTO)	
AA0039	TTC-39(V2)	AUTOMATIC CENTRAL OFFICE	AA0071	S-280	SHELTER	
			AA0090	KY-68	DIG SECURE TP	
			AA0092	TA-312	TELEPHONE SET	
			AA0094	KOI-18	TAPE READER	
			AA0102	HGX-82	LOOP KEY GEN CONTROL	
			AA0103	HGX-83	AUTO KEY DISTR GEN	
			AA0104	HGX-84	INTERFACE CONTROL UNIT	
			AA0105	KG-83	KEY VARIABLE GENERATOR	
			AA0108	KG-82	LOOP KEY GENERATOR	
			AA0109	KG-81	TRUNK ENCYP DEVICE	
			AA0115	KYK-13	KEY GUN	
			AA0116	KYX-15	NET CONTROL DEVICE	
			AA0227	HGF-82	COMMON EQUIP FRAME	
			AA0229		ENV CON UNIT 18K BTU	
			AA0233	HGF-91	FRAME (TED)	
			AA0236	HYP-71	RECHARGER BTRY PWR SUPPLY	
			AA0239	KIK-18	CODE CHANGER KEY	
			AA0248	KG-82 DVP	LOOP KEY GENERATOR (DVP)	
			AA0254	HGX-82 DVP	LOOP KEY GEN CONTROL(DVP)	
			AA0572		FILL CABLE (CRYPTO)	
AA0040	TTC-42(V2)	AUTO TP CEN OFFICE (150L)	AA0090	KY-68	DIG SECURE TP	
			AA0094	KOI-18	TAPE READER	
			AA0108	KG-82	LOOP KEY GENERATOR	
			AA0109	KG-81	TRUNK ENCYP DEVICE	
			AA0115	KYK-13	KEY GUN	
			AA0116	KYX-15	NET CONTROL DEVICE	
			AA0233	HGF-91	FRAME (TED)	
			AA0236	HYP-71	RECHARGER BTRY PWR SUPPLY	
			AA0238	KGX-93	AUTO KEY DISTR CEN	
			AA0239	KIK-18	CODE CHANGER KEY	
			AA0241	HGF-94	FRAME (TED)	
			AA0248	KG-82 DVP	LOOP KEY GENERATOR (DVP)	
			AA0572		FILL CABLE (CRYPTO)	
			AA0576	HGF-93	FRAME (AKDC)	
AA0041	SB-3865	AUTO SWBD (30L)	AA0090	KY-68	DIG SECURE TP	
			AA0094	KOI-18	TAPE READER	
			AA0115	KYK-13	KEY GUN	
			AA0116	KYX-15	NET CONTROL DEVICE	
			AA0149	KG-93	TRUNK ENCYP DEVICE	
			AA0236	HYP-71	RECHARGER BTRY PWR SUPPLY	
			AA0464	TD-1235	LOOP GROUP MUX	

END ITEM ASSOCIATED/ANCILLARY EQUIPMENT LIST BY FORCE

ITEM KEY NR	ASSOC KEY NR	NOMENCLATURE	ASSOC QUANT	EQUIP = UNIT•QUANT ACT	NG	RES	TOTAL	SELECTED FORCE ACT	NG	RES	TOT
AA0140		TS-3647 CABLE ORDERWIRE UNIT		300	250	200	750	6	4	2	12
	AA0090	B-5599 BATTERY	2	600	500	400	1500				
	AA0091	H-182 HEADSET	1	300	250	200	750				

EXAMPLE

THIS OUTPUT PROVIDES THE TOTAL END ITEMS, BOTH STAND ALONE AND AS PART OF ASSEMBLAGES WITHIN A FORCE MODEL OR SELECTED FORCE. THE AMOUNT OF ASSOCIATED AND/OR ANCILLARY ITEMS FOR THESE END ITEMS ARE SHOWN BY ACTIVE ARMY, NATIONAL GUARD, RESERVE AND TOTAL FORCE.

FIGURE 13

		[illegible] (UNIVERSAL)	AA0357	TRC-138(MOD)	RADIO RPTR SET(UNI-SRUBR)	2
FS	AA0281 MGF-91	COMMON EQUIP FRAME	AA0356	TYC-39	CENTRAL MSG SWITCH AUTO	1

FORCE	PR KEY ID	COMPONENT NOMENCLATURE / DESCRIPTION	PACKAGE NO.	PACKAGE NOMENCLATURE / DESCRIPTION	QUANTITY
FS	AA0282 MGF-95	COMMON EQUIP FRAME	AA0339	TTC-39(V1)	AUTOMATIC CENTRAL OFFICE	1
FS	AA0283 MGF-91	FRAME (FED)	AA0338	TTC-39(V1)	AUTOMATIC CENTRAL OFFICE	2
			AA0339	TTC-39(V2)	AUTOMATIC CENTRAL OFFICE	2
			AA0343	TTC-42(V2)	AUTO TP CEN OFFICE (150L)	1
			AA0356	TYC-39	CENTRAL MSG SWITCH AUTO	1
FS	AA0285 MYP-71	RECHARGER BTRY PWR SUPPLY	AA0311		ACR CP COMM SPT TRACK	1
			AA0331		DTOC COMM ASBL	1
			AA0338	TTC-39(V1)	AUTOMATIC CENTRAL OFFICE	2
			AA0339	TTC-39(V2)	AUTOMATIC CENTRAL OFFICE	4
			AA0343	TTC-42(V2)	AUTO TP CEN OFFICE (150L)	1
			AA0341	SB-3865	AUTO SWBD (30L)	1
			AA0356	TYC-39	CENTRAL MSG SWITCH AUTO	2
			AA0358	TTC-42(V1)	AUTO TP CEN OFFICE (75L)	1
FS	AA0288 KGX-93	AUTO KEY DISTR CEN	AA0343	TTC-42(V2)	AUTO TP CEN OFFICE (150L)	2
			AA0359	TTC-42(V1)	AUTO TP CEN OFFICE (75L)	1
FS	AA0289 KIK-11	CODE CHANGER KEY	AA0338	TTC-39(V1)	AUTOMATIC CENTRAL OFFICE	1
			AA0339	TTC-39(V2)	AUTOMATIC CENTRAL OFFICE	1
			AA0343	TTC-42(V2)	AUTO TP CEN OFFICE (150L)	1
			AA0356	TYC-39	CENTRAL MSG SWITCH AUTO	1
			AA0358	TSD-111(V1)	COMM NODAL CTRL ELEM	1
			AA0359	TTC-42(V1)	AUTO TP CEN OFFICE (75L)	1
			AA0119	TSD-111(V3)	COMM NODAL CTRL ELEM	1
FS	AA0291 MGF-96	FRAME (FED)	AA0343	TTC-42(V2)	AUTO TP CEN OFFICE (150L)	1
			AA0358	TSD-111(V1)	COMM NODAL CTRL ELEM	6
			AA0359	TTC-42(V1)	AUTO TP CEN OFFICE (75L)	1
FS	AA0292 MGF-92	FRAME (LCG)	AA0311		ACR CP COMM SPT TRACK	1
			AA0331		DTOC COMM ASBL	1
			AA0345		DISCOM COMM ASBL	1
			AA0346		DIV BICC COMM ASBL	1
			AA0334		CTOC COMM ASBL	1
			AA0358	TSD-111(V1)	COMM NODAL CTRL ELEM	2
			AA0375	TYD-16	COMM SYS CTRL ELEM	2
			AA0113		MOD TACT COMM CEN W/JLMS	1
			AA0113	TSD-111(V3)	COMM NODAL CTRL ELEM	2
			AA0137		MOD TACT COMM CEN	1
FS	AA0295 [illegible]	RADIO SET (SRUBR 433)	AA0357	TRC-138(MOD)	RADIO RPTR SET(UNI-SRUBR)	1
			AA0144	TRC-175	RADIO TERMINAL SET	2

FIGURE 14

EQUIPMENT LIST F-5 IS A LISTING OF THE INTACS OBJECTIVE SYSTEM WHICH IS DERIVED FROM THE MASTER EQUIPMENT FILE.

THE FOLLOWING INFORMATION IS FURNISHED:

1. KEY # - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE.
2. NOMENCLATURE, ACRONYM, DESCRIPTION - EQUIPMENT IDENTIFICATION.
3. BOIP # - BASIS OF ISSUE PLAN FOR FUTURE EQUIPMENT.
4. LINE # -LIN-ALPHAMERIC LINE ITEM NUMBER IDENTIFICATION OF A GENERIC NOMENCLATURE.
5. SSN - STANDARD STUDY NUMBER - FUNDING NUMBER ASSIGNED TO APPROVED PROCUREMENT ITEMS.
6. ACN - ACTION CONTROL NUMBER ASSIGNED TO TRACK ALL ACTIONS PERTAINING TO A PROGRAM.
7. FUND YR - INITIAL FUNDING YEAR.
8. IOC - INITIAL OPERATIONAL CAPABILITY - TIME WHEN EQUIPMENT AND TRAINED PERSONNEL CAN BE DEPLOYED.

LAST REVISION TO THE DATA BASE WAS MADE ON [REVISION DATE] (** MAR 3,1981 **).

THIS REPORT IS AVAILABLE ONLY BY EQUIPMENT CATEGORY, BUT MAY BE SORTED BY ANY COLUMN WITHIN CATEGORY.

QUESTIONS SHOULD BE ADDRESSED TO JSASC-SIMD AUTOVON 230-3182/3671.

DATE 03/04/81 EQUIPMENT FILE FORCE MODEL# F5 AIIMSP0077
BY KEY NUMBER

KEY #	NOMENCLATURE	ACRONYM	DESCRIPTION	BOOP #	LINE #	SSN	ACN	FUND YR	IOC	REMARKS
****	TACTICAL COMMUNICATIONS CONTROL FACILITIES									
AA0058	TSQ-111(V1)	CNCE I	COMM NODAL CTRL ELEM	770002	Z16406		23425	80	285	
AA0065			MSE CONTROL FACILITY CSCE				56190	85	488	
AA0075	TYQ-15	CSCE	COMM SYS CTRL ELEM	770005	Z16432		23278	82	286	
AA0118	TSQ-111(V3)	CNCE III	COMM NODAL CTRL ELEM	800155	Z16404		23425	80	285	
AA0324	MSC-31		OPERATIONS CEN COMM		N20115		00000	75	N/A	
****	SWITCHING									
AA0038	TTC-39(V1)	CS	AUTOMATIC CENTRAL OFFICE	790046	Z14284		22720	81	383	
AA0039	TTC-39(V2)	CS	AUTOMATIC CENTRAL OFFICE	790047	Z14285		22720	81	383	
AA0040	TTC-42(V2)	ULCS	AUTO TP CEN OFFICE (150L)	780250	Z94982		23442	82	186	
AA0041	SB-3865	ULCS	AUTO SWBD (30L)	780251	Z94980		23442	82	186	
AA0042	SB-3865	ULCS	AUTO SWBD (60L)				23442	82	186	
AA0043	SB-22		SWBD TELEPHONE MANUAL		U81707		23470	75	281	
AA0056	TYC-39	MS	AUTO MESSAGE SW/OX-54	760098	Z42430		22720	81	182	
AA0059	TTC-42(V1)	ULCS	AUTO TP CEN OFFICE (75L)	770021	Z94981		23442	82	186	
AA0068		COMM MOD	COMM MODULE (ULMS)				00000	00	N/A	
AA0119	SB-993		SWITCHBOARD MANUAL				00000	75	N/A	
****	TERMINALS									
AA0053	C-6709	BNRIU	COMM CONTROL UNIT		E95072				281	
AA0063		MSE-AU	ACCESS UNIT		Z43580		56190	85	488	
AA0070	KY-90	SDNRIU	DGTL NET RAD INT UNIT		Z65089		24293	81	286	
AA0083	TA-938		TELEPHONE SET		V31305	B34506	23415	75	177	
AA0090	KY-68	DSVT	DIG SECURE TP	790110	Z75007		38505	79	383	
AA0091	HYX-68/TSEC		EXTENSION TEL		Z26429		38505	79	N/A	
AA0092	TA-312		TELEPHONE SET		V31211	B69606	23470	75	N/A	
AA0095	TA-1		TELEPHONE SET		V30252		00000	75	N/A	
AA0097	TA-287		REPEATER TELEPHONE		R80360		00000	75	N/A	
AA0121		MST	MOBILE SUB TERM (TERM)		Z43587		20817	85	488	
AA0141	TA-956	DNVT	DIG NON-SEC TP		Z22159		23415	81	183	
AA0150		CV-DGTL	SECURE CONVERTER (1 PORT)	770153	Z04837		38508	82	486	
AA0176	CV-3591	ANDVT	ADV NB DIG VOC TERM		Z08399		20786	84	185	
AA0201	TA-978	SWAT	TELEPHONE SIG INTERFACE	780060	Z35146	B29440	16472	80	483	
AA0209	TA-264		TELEPHONE SET		V30937		00000	00	N/A	
AA0210	TA-341		TELEPHONE SET		V31243		00000	00	N/A	
AA0241	TA-838		TELEPHONE SET		Z78658	B59100	23415	00	177	
AA0257	TA-236		TELEPHONE SET		V30663		00000	00	N/A	
AA0265		PLRS	PLRS BASIC UNIT	780161	Z49812		23559	00	484	
AA0267		PLRS	PLRS MANPACK KIT	780162	Z49813		23559	00	484	
AA0269		PLRS	PLRS SURFACE VEH KIT	780163	Z49814		23559	00	484	
AA0270		PLRS	PLRS AIRBORNE VEH KIT	780164	Z49815		23559	00	484	

DAMPL	CMP	SRC/TOE	UIC	EDATE	UNIT TYPE	LOC	STN NAME	UNIT
** FEB 87 **								
	3	11303H800		821001	CO RADIO OPERATING			
	1	11305H000		850910	BN HHD			
	1	11306H000		860910	BN HHD			
	1	11307H100		851004	CO SIG SWITCHING			
	1	11307H100		841001	CO SIG SWITCHING			
	1	11308H100		841004	CO TELCOM CTR OPS			
	1	11308H100		821004	CO TELCOM CTR OPS			
	1	11327G700		850710	CO LARGE HQ JP			
	1	11327G700		870710	CO JP(LARGE-HQ)			
	1	11345G600		830911	BN OPERATIONS			
	2	11353G700		820920	CO MESSENGER			
	2	11359G700		821001	CO MESSENGER			
	1	11367H700		830810	CO TROOP LIGHT			
	1	11367H700		850810	CO TROOP LIGHT			
	1	11367H700		830910	CO TROOP LIGHT			
	1	11367H700		810116	CO TROOP LIGHT			
	1	11367H700		841002	CO TROOP LIGHT			
	1	11368G900		811005	CO TROOP HEAVY			
	3	11368G900		870930	CO TROOP HVY			
	1	11402H700		811016	HHC SIG BDE CORPS			
	1	11402H700		811016	HHC SIG BDE CORPS			
	1	11402H700		830812	HHC BDE ARMY			
	1	11402H700		811001	HHC CORPS SIG BDE			
	2	11402H700		821001	HHC CORPS SIG BDE			
	2	11402H700		800701	HHC CORPS SIG BDE			
	1	11403B800		830104	CO TACSAT			
	1	11403B800		820104	CO TACSAT			
	2	11405H710		841001	BN CMD OPS MANTEL			
	2	11405H710		800501	BN CORPS CMD OP			
	1	11405H720		811016	CO			
	1	11405H720		811016	BN CMD OPS SIG			
	1	11405H720		820316	BN CORPS			
	1	11412H800		841001	HHD CORPS SIG BDE			
	1	11415H620		850820	BN BN ARMY AREA (-)			
	1	11415H620		850020	BN BN ARMY AREA (-)			
	1	11415H620		851004	BN CORPS AREA SIG			
	1	11415H620		820930	BN ARMY AREA			
	1	11415H620		811016	BN ARMY AREA			
	1	11415H620		870910	BN CORPS AREA SIG			
	1	11415H620		870910	BN CORPS AREA SIG (+)			
	3	11415H620		870820	BN CORPS AREA			
	1	11415H620		870810	BN CORPS AREA SIG			
	2	11415H620		870810	BN CORPS AREA			
	2	11415H620		870810	BN CORPS AREA SIG			
	2	11415H620		841001	BN CORPS AREA SIG			
	2	11415H620		870510	BN ARMY			
	2	11415H620		870910	BN CORPS AREA			
	2	11415H620		870310	BN OPERATIONS			
	2	11415H620		870810	BN CORPS AREA SIG			
	2	11415H620		870810	BN CORPS AREA			
	2	11415H620		870810	BN CORPS AREA			
	2	11415H620		870810	BN CORPS AREA			
	2	11415H620		870810	BN CORPS AREA			

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KEY NUMBER	NOMENCLATURE	LINE NUMBER	FORCE MODEL	BOI	CATEGORY
AA0001	TRC-174	Z54160	F4 F5	F5	01
AA0002	ACS COMM ASBL		F5	F5	13
AA0003	TSC-93	S34895	F2 F3 F4		01
AA0004	TD-276	A95943	F2 F3		02
AA0005	TRC-151	Q92399	F2 F3		01
AA0006	MSO-114	S34509	F2 F3 F4 F5	F5	03
AA0007	TRC-152	R78067	F2 F3		01
AA0008	ACS CP COMM TRACK		F5	F5	13
AA0009	TSC-85A		F2 F3 F4		01
AA0010	TSC-93A		F2 F3 F4		01
AA0011	ACS CP COMM SPT TRACK		F5	F5	13
AA0012	ACS CP COMM TRACK		F5	F5	13
AA0013	A/M BDE CP COMM TRACK		F5	F5	13
AA0014	TRC-170(V3)		F5	F5	01
AA0015	TRC-170(V2)		F5	F5	01
AA0016	TSC-(S)		F5	F5	01
AA0017	TSC-(M)		F5	F5	01
AA0018	DIV SSO COMM ASBL		F5	F5	13
AA0019	TSC-86	S34827	F2 F3 F4		01
AA0020	TSC-85	S52242	F1 F2 F3 F4		01
AA0021	MSC	Z43586	F5	F5	01
AA0022	TD-982	Z50565	F2 F3		02
AA0024	MS77		F5	F5	13
AA0025	GRC-103(V4)	Z54361	F2 F3 F4 F5	F5	01
AA0026	BN CP COMM TRACK		F5	F5	13
AA0027	TD-1065	H35599	F2 F3		02
AA0028	SB-1339		F2 F3 F4 F5	F5	15
AA0029	TD-1069	T21130	F2 F3 F4 F5	F5	02
AA0030	TSC-97	Z20550	F2 F3 F4 F5	F5	02
AA0031	DTOC COMM ASBL		F5	F5	13
AA0032	DTOC STAFF COMM ASBL		F5	F5	13
AA0033	DIVCOM COMM ASBL		F5	F5	13
AA0034	FA*C/SPT BN COMM ASBL		F5	F5	13
AA0035	DIV/BDE COMM ASBL		F5	F5	13
AA0036	DIV RICC COMM ASBL		F5	F5	13
AA0037	BN COMM ASBL		F5	F5	13
AA0038	TTC-39(V1)	Z14286	F3 F4 F5	F5	04
AA0039	TTC-39(V2)	Z14285	F3 F4 F5	F5	04
AA0040	TTC-42(V2)	Z94982	F4 F5	F5	04
AA0041	SB-3865	Z94980	F4 F5	F5	04
AA0042	SB-3869		F4 F5	F5	04
AA0043	SB-22	D81707	F1 F2 F3 F4 F5	F5	04
AA0044	CTOC COMM ASBL		F5	F5	13
AA0045	CTOC STAFF COMM ASBL		F5	F5	13
AA0047	S-250		F1 F2 F3 F4 F5	F5	11
AA0048	BCS		F4 F5	F5	07
AA0050	TSC-99	Z11114	F4 F5	F5	07
AA0051	GRC-122(V2)		F2 F3		07
AA0052	TRC-173	Z57270	F4 F5	F5	01
AA0053	C-6709	E95072	F2 F3 F4 F5	F5	05
AA0054	CSPE		F4 F5	F5	03
AA0055	PRC-113	Z55876	F2 F3 F4 F5	F5	07
AA0056	TYC-39	Z42430	F3 F4 F5	F5	04
AA0058	TSQ-111(V1)	Z16405	F3 F4 F5	F5	03
AA0059	TTC-42(V1)	Z94981	F4 F5	F5	04

FIGURE 17

AA0027	11036H000	78
	11086H200	207
	11117H710	12
	11117H720	12
	11175H200	46
	11237G800	14

KEY NUMBER	T D E	QTY
AA0027	11347G600	128
	11416H610	175
	11416H620	175
	11425H700	55
	11429H702	3
	11500G8RJ	2
	11500G8RK	3
	11500G8RT	8
	11540H5JJ	2
	11540H5JK	3
	11540H5JT	8
	44236H410	15
	44236H420	15
	44246H210	15
	44246H220	15
	44266H500	13
	44536H200	15
AA0038	11357G600	1
	11407H720	2
	11409H720	2
	11417H620	1
	11439H900	2
AA0039	11327G700	2
AA0040	11037H000	2
	11039H000	2
	11127H700	2
	11147G700	1
	11207H100	3
	11217H300	2
	11218H300	1
	11523H66C	1
AA0041	01252H200	2
	05026H300	1
	05052H600	1
	05101H610	1
	05101H620	1
	05146H700	1
	05156H700	1
	05216H100	1
	06116H000	2
	06155H300	2
	06166H000	2
	06186H000	2
	06201H300	4
	06206H300	2
	06302H000	4
	06366H000	2
	06376H000	2
	06376H020	2

GENERIC TOE FILE BY FORCE F-S (OBJECTIVE SYSTEM) PROVIDES A LISTING OF ALL THE UNITS IN THE FORCE AND THE EQUIPMENT AND QUANTITIES ASSIGNED TO EACH.

THE [illegible] WORDS FOLLOW HEADINGS ARE:
1. SEC & UIC & TYPE UNIT - UNIT IDENTIFICATION.
2. KEY NUMBER - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE.
3. NOMENCLATURE (NO) DESCRIPTION - EQUIPMENT IDENTIFICATION.
4. EQ QUAN - AMOUNT OF EQUIPMENT PER EACH TOE.

NOTES: 1. TOE & QUAN BASED ON COMBINATION OF INTACS OBJECTIVE SYSTEM & APPROVED BOIPS.
2. EXAMPLE TOE- 11-035H000 = INTACS PLANNED TOE
11-035H00D = REAL TOE

LAST REVISION TO THE DATA BASE WAS MADE ON (PROCESSING DATE) (00 MAR 81)1981 001.

QUESTIONS SHOULD BE ADDRESSED TO JDASE-SIMO AUTOVON 780-3182/3671.

FIGURE 19

**FORCE MODEL F-S ** NOTES AN * IN TOE DENOTES A COMPONENT

01165M****	BN ASLT SPT HEL	AA0043	SB-22	SWBD TELEPHONE MANUAL	1
		AA0082		REMOTE CONTROL	14
		AA0092	TA-312	TELEPHONE SET	43
		AA0106	KY-57	SPEECH SECURITY EQUIP	0
		AA0111	KY-58	SPEECH SEC EQUIP ABN	0
		AA0112	KG-84	DED LOOP ENCYP DEVICE	1
		AA0115	KYK-13	KEY GUN	0
		AA0134	UXC-4	TAC DGTL FACSIMILE	1
		AA0141	TA-956	DIG NON-SEC TP	20
		AA0183		TACSAT S/C TERMINAL	1
		AA0192	GRC()(V2)	RADIO SET VEHICLE	6
		AA0193	GRC()(V5)	RADIO SET VEHICLE	9
		AA0194	GRC()(V4)	RADIO SET VEHICLE	5
		AA0195	ARC()(V1)	RADIO SET AIR	100
		AA0366	UIC-1	INTERCOM SET	1
01207A****	U AIR TRAFFIC CON	AA0043	SB-22	SWBD TELEPHONE MANUAL	1
		AA0082		REMOTE CONTROL	1
		AA0092	TA-312	TELEPHONE SET	25
		AA0106	KY-57	SPEECH SECURITY EQUIP	0
		AA0111	KY-58	SPEECH SEC EQUIP ABN	0
		AA0112	KG-84	DED LOOP ENCYP DEVICE	28
		AA0115	KYK-13	KEY GUN	0
		AA0150		SECURE CONVERTER (1 PORT)	1
		AA0191	GRC()(V1)	RADIO SET MANPACK	18
		AA0192	GRC()(V2)	RADIO SET VEHICLE	14
		AA0193	GRC()(V5)	RADIO SET VEHICLE	2
		AA0195	ARC()(V1)	RADIO SET AIR	9
		AA0378	TSC-61	FLIGHT COORD CENTER	9
01252M****	MMC GRP COMBAT	AA0042	SB-3865	AUTO SWBD (6OL)	1
		AA0043	SB-22	SWBD TELEPHONE MANUAL	2
		AA0082		REMOTE CONTROL	3
		AA0090	KY-68	DIG SECURE TP	10
		AA0091	HYX-68/TSEC	EXTENSION TEL	20
		AA0106	KY-57	SPEECH SECURITY EQUIP	0
		AA0111	KY-58	SPEECH SEC EQUIP ABN	0
		AA0112	KG-84	DED LOOP ENCYP DEVICE	2
		AA0115	KYK-13	KEY GUN	0
		AA0131		VISUAL DISPLAY UNIT	1
		AA0134	UXC-4	TAC DGTL FACSIMILE	1
		AA0141	TA-956	DIG NON-SEC TP	12
		AA0146		MOD RECORD TFC TML (SNGL)	1
		AA0150		SECURE CONVERTER (1 PORT)	2
		AA0154		COMMAND COMM CONSOLE	1
		AA0183		TACSAT S/C TERMINAL	1
		AA0191	GRC()(V1)	RADIO SET MANPACK	10
		AA0192	GRC()(V2)	RADIO SET VEHICLE	1
		AA0193	GRC()(V5)	RADIO SET VEHICLE	2

FIGURE 19A

GENERIC TOE FILE BY FORCE F-5 (OBJECTIVE SYSTEM) PROVIDES A LISTING OF ALL THE UNITS IN THE FORCE AND THE EQUIPMENT AND QUANTITIES ASSIGNED TO EACH.

THE INFORMATION UNDER COLUMN HEADINGS IS :

1. SRC / TOE / TIF NAME - UNIT IDENTIFICATION.
2. KEY NUMBER - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE.
3. NOMENCLATURE AND DESCRIPTION - EQUIPMENT IDENTIFICATION.
4. EQ QUAN - AMOUNT OF EQUIPMENT PER EACH TOE.

NOTES: 1. TOE & QUAN BASED ON COMBINATION OF INTACS OBJECTIVE SYSTEM & APPROVED BOIPS.
2. EXAMPLE TOE- 11-035M*** = INTACS PLANNED TOE
11-035M000 = REAL TOE

LAST REVISION TO THE DATA BASE WAS MADE ON (REVISION DATE) *** MAR 3,1981 ***.

QUESTIONS SHOULD BE ADDRESSED TO JSASC-SIMO AUTOVON 780-3182/3671.

FIGURE 33

SAME FORMAT AS FIGURE 19A BUT WITH 'COMPONENT ONLY' ITEMS AT END OF RUN.

FIGURE 20A

GENERIC BDI FILE BY FORCE F-5 (OBJECTIVE SYSTEM) PROVIDES A LISTING OF ALL THE EQUIPMENT IN THE FORCE, THE TOE AND THE AMOUNT OF EQUIPMENT IN EACH TOE.

THE FOLLOWING INFORMATION IS FURNISHED:

1. KEY # - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE.
2. NOMENCLATURE AND DESCRIPTION - EQUIPMENT IDENTIFICATION.
3. TOE NR / TOE NAME - UNIT IDENTIFICATION.
4. EQ QUAN - AMOUNT OF EQUIPMENT PER EACH TOE.

NOTES: 1. TOE'S WERE BASED ON COMBINATION OF INTACS OBJECTIVE SYSTEM & APPROVED BOIPS.

2. EXAMPLE TOE- 11-035H*** = INTACS PLANNED TOE
11-035H000 = REAL TOE

LAST REVISION TO THE DATA BASE WAS MADE ON (REVISION DATE) (** MAR 3,1981 **).

QUESTIONS SHOULD BE ADDRESSED TO USASC-SIMO AUTOVON 780-3182/3671.

FIGURE 21

LEV #	NOMENCLATURE/DESCRIPTION	TOE #	TOE NAME	QTY
	FORCE MODEL F-5			
0037	BN COMM ASSL	06375H***	BN 155 SP	2
		06395H***	BN 8IN SP	2
		06405G***	BN 105 T	2
		06405H***	BN 105 T	2
		06425H***	BN 155 T	2
		06445H***	BN 8IN SP	2
		06455H***	BN 155 SP	2
		06575G***	BN TARGET ACQ-(BTY C)	2
		06577G***	BN ACQ .	2
		06705H***	BN 105 T AIRMOBILE	2
		06715H***	BN 155 T AIRMOBILE	2
		06725H***	BN AERIAL ARTY	2
		07015H***	BN	2
		07035H***	BN AIRMOBILE	2
		17215H***	BN TANK	2
0038 TTC-39(V1)	AUTOMATIC CENTRAL OFFICE	11407H***	SIG SW CO CORPS	2
		11409H***	SIG SPT CO CMD OP BN	2
		11415H***	SIG BN AREA (1-3)	3
		11417H***	CBT SIG TELECOM CO	1
		11435H***	SIG CMD OP BN,ABN-CORPS	1
		11437H***	SIG SW CO,ABN-CORPS	1
		11506G***	CO TERMINAL OPS	1
		11901H***	SPEC REQ	1
0039 TTC-39(V2)	AUTOMATIC CENTRAL OFFICE	11305H***	CMD SPT BN,TA	2
		11307H***	SIG SW CO	2
		11901H***	SPEC REQ	1
0040 TTC-42(V2)	AUTO TP CEN OFFICE (150L)	11127H***	SIG OPS CO MED HQ	2
		11147H***	SIG OPS CO SGL HQ	1
		11435H***	SIG CMD OP BN,ABN-CORPS	2
		11439H***	SIG SPT CO,ABN-CORPS	2
		11901H***	SPEC REQ	2
0041 SB-3865	AUTO SWBD (30L)	01165H***	BN ASLT SPT HEL	1
		05052G***	HHC GRP COMBAT	1
		05101G***	HHC BDE COMBAT	1
		05112G***	HHC GRP CONSTRUCTION	1
		05145H***	ENG BN	1
		05155H***	BN	1
		06201H***	HHB DIV ARTY	2
		06302H***	HHB DIV ARTY	2
		06615G***	BN HHB PERSHING	1
		06616H***	BN HHB PERSHING	1
		06701H***	HHB DIV ARTY	1
		07015H***	BN	1
		07042H***	HHC BDE	2

TOE FILE BY FORCE F-5 (OBJECTIVE SYSTEM) PROVIDES A LISTING OF ALL THE TOES IN THE FORCE THAT CONTAIN THE SELECTED EQUIPMENT, THE EQUIPMENT AND QUANTITY IN EACH TOE, AND THE TOTALS OF EQUIPMENT IN THE FORCE.

THE INFORMATION UNDER COLUMN HEADINGS IS :

1. SRC / TOE / TOE NAME - UNIT IDENTIFICATION.
2. KEY NUMBER - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE.
3. NOMENCLATURE AND DESCRIPTION - EQUIPMENT IDENTIFICATION.
4. EQ QUAN - AMOUNT OF EQUIPMENT PER EACH TOE.
5. ACT/EQ - TOTAL ACTIVE ARMY EQUIPMENT IN THE FORCE.
6. NG/EQ - TOTAL NATIONALGUARD EQUIPMENT IN THE FORCE.
7. RES/EQ - TOTAL ARMY RESERVE EQUIPMENT IN THE FORCE.
8. TOT/EQ - TOTAL EQUIPMENT IN THE FORCE.
9. ACT - NUMBER OF ACTIVE ARMY UNITS IN THE FORCE.
10. NG - NUMBER OF NATIONAL GUARD UNITS IN THE FORCE.
11. RES - NUMBER OF RESERVE ARMY UNITS IN THE FORCE.
12. TOT - TOTAL NUMBER OF UNITS IN THE FORCE.

LAST REVISION TO THE DATA BASE WAS MADE ON (REVISION DATE) (** MAR 3,1981 **).

QUESTIONS SHOULD BE ADDRESSED TO JSASC-SIMO AUTOVON 780-3182/3671.

FIGURE 22

TOE #	TOE NAME	KEY #	NOMENCLATURE/DESCRIPTION	EQ QUAN	EQUIPMENT = UNIT • QUANTITY ACT/EQ	NAT/EQ	RES/EQ	TOT/EQ	ACT	NAT	RES	TOT
••FORCE MODEL F-5 ••		NOTE: AN • IN TOE DENOTES A COMPONENT										
11616H•••	MHC SIG BN T	AA0052	TRC-173	RADIO TERMINAL SET	2							
		AA0055	PRC-113	RADIO SET PORTABLE U	2							
		AA0056	TYC-39	AUTO MESSAGE SW/OX-5	1							
		AA0059	TTC-42(V1)	AUTO TP CEN OFFICE (	1							
		AA0067	TRC-138	RADIO REPEATER SET (	2							
		AA0068	AB-2315	TOWER ROOF EXPANDABL	4							
		AA0075	TYQ-16	COMM SYS CTRL ELEM	1							
		AA0077		TACTICAL DOC COPIER	1							
		AA0080	KY-90	DGTL NET RAD INT UNI	1							
		AA0082		REMOTE CONTROL	2							
		AA0090	KY-68	DIG SECURE TP	5							
		AA0091	HYX-68/TSE	EXTENSION TEL	10							
		AA0092	TA-312	TELEPHONE SET	9							
		AA0095	TA-1	TELEPHONE SET	6							
		AA0106	KY-57	SPEECH SECURITY EQUI	0							
		AA0112	KG-84	DED LOOP ENCYP DEVIC	6							
		AA0115	KYK-13	KEY GUN	0							
		AA0118	TSQ-111(V3	COMM NODAL CTRL ELEM	1							
		AA0119	SB-993	SWITCHBOARD MANUAL	1							
		AA0120	TD-1234	REMOTE MUX COMBINER	2							
		AA0134	UXC-4	TAC DGTL FACSIMILE	1							
		AA0137		MOD TACT COMM CEN	1							
		AA0141	TA-954	DIG NON-SEC TP	40							
		AA0143	TD-1233	REMOTE LOOP GROUP MU	2							
		AA0144	TRC-175	RADIO TERMINAL SET	2							
		AA0150		SECURE CONVERTER (1	1							
		AA0193		TACSAT S/C TERMINAL	1							
		AA0193	GRC( )(V5)	RADIO SET VEHICLE	3							
		AA0194	GRC( )(V4)	RADIO SET VEHICLE	3							
		AA0327	GSQ-80	MESSAGE CENTER	1							
				TOTALS								
11617H•••	CBT SIG TELE	AA0001	TRC-174	RADIO REPEATER SET	9							
		AA0038	TTC-39(V1)	AUTOMATIC CENTRAL OF	1							
		AA0043	SB-22	SWBD TELEPHONE MANUA	1							
		AA0052	TRC-173	RADIO TERMINAL SET	3							
		AA0050	TSQ-111(V1	COMM NODAL CTRL ELEM	1							
		AA0059	TTC-42(V1)	AUTO TP CEN OFFICE (	3							
		AA0060	TD-1219	H/S PULSE RESTORER	40							
		AA0061	TD-1218	L/S PULSE RESTORER	35							
		AA0067	TRC-138	RADIO REPEATER SET (	3							
		AA0077		TACTICAL DOC COPIER	1							
		AA0080	KY-90	DGTL NET RAD INT UNI	1							
		AA0082		REMOTE CONTROL	1							
		AA0090	KY-68	DIG SECURE TP	20							
		AA0091	HYX-68/TSE	EXTENSION TEL	40							
		AA0092	TA-312	TELEPHONE SET	9							
		AA0095	TA-1	TELEPHONE SET	6							

TOE #	TOE NAME	KEY #	NOMENCLATURE/DESCRIPTION	EQ QUAN	EQUIPMENT = UNIT • QUANTITY ACT/EQ	NAT/EQ	RES/EQ	TOT/EQ	ACT	NAT	RES	TOT
••FORCE MODEL F-5 ••		NOTE: AN • IN TOE DENOTES A COMPONENT										
11417H•••	CBT SIG TELE	AA0106	KY-57	SPEECH SECURITY EQUI	0							
		AA0110		MOD TACT COMM CEN W/	1							
		AA0111	KY-58	SPEECH SEC EQUIP ABN	0							
		AA0112	KG-84	DED LOOP ENCYP DEVIC	10							
		AA0115	KYK-13	KEY GUN	0							
		AA0118	TSQ-111(V3	COMM NODAL CTRL ELEM	3							
		AA0119	SB-993	SWITCHBOARD MANUAL	1							
		AA0120	TD-1234	REMOTE MUX COMBINER	40							
		AA0137		MOD TACT COMM CEN	1							
		AA0141	TA-956	DIG NON-SEC TP	380							
		AA0143	TD-1233	REMOTE LOOP GROUP MU	52							
		AA0146		MOD RECORD TFC TML (	6							
		AA0150		SECURE CONVERTER (1	1							
		AA0183		TACSAT S/C TERMINAL	1							
		AA0193	GRC(1(V5)	RADIO SET VEHICLE	5							
		AA0194	GRC(1(V4)	RADIO SET VEHICLE	1							
		AA0196	GRC(1(V7)	RADIO SET VEHICLE	1							
		AA0327	GSQ-80	MESSAGE CENTER	1							
				TOTALS								
11422H•••	HHD CBT SIG	AA0043	SB-22	SWBD TELEPHONE MANUA	1							
		AA0075	TYQ-16	COMM SYS CTRL ELEM	1							
		AA0077		TACTICAL DOC COPIER	1							
		AA0090	KY-68	DIG SECURE TP	2							
		AA0091	HYX-68/TSE	EXTENSION TEL	4							
		AA0092	TA-312	TELEPHONE SET	9							
		AA0095	TA-1	TELEPHONE SET	6							
		AA0106	KY-57	SPEECH SECURITY EQUI	0							
		AA0112	KG-84	DED LOOP ENCYP DEVIC	2							
		AA0115	KYK-13	KEY GUN	0							
		AA0119	SB-993	SWITCHBOARD MANUAL	1							
		AA0134	UXC-4	TAC DGTL FACSIMILE	1							
		AA0141	TA-956	DIG NON-SEC TP	12							
		AA0146		MOD RECORD TFC TML (	2							
		AA0150		SECURE CONVERTER (1	1							
		AA0183		TACSAT S/C TERMINAL	1							
		AA0193	GRC(1(V5)	RADIO SET VEHICLE	2							
		AA0327	GSQ-80	MESSAGE CENTER	1							
				TOTALS								
11423H•••	CBT SIG CBL/	AA0043	SB-22	SWBD TELEPHONE MANUA	1							
		AA0061	TD-1218	L/S PULSE RESTORER	170							
		AA0090	KY-68	DIG SECURE TP	1							
		AA0091	HYX-68/TSE	EXTENSION TEL	8							
		AA0092	TA-312	TELEPHONE SET	8							
		AA0095	TA-1	TELEPHONE SET	6							

SAME FORMAT AS FIGURE 22A BUT WITH 'COMPONENT ONLY' ITEMS AT END OF RUN.

FIGURE 23

BOI FILE BY FORCE F-5 (OBJECTIVE SYSTEM) PROVIDES A LISTING OF ALL THE EQUIPMENT IN THE FORCE, THE AMOUNT IN EACH TOE, THE TOTALS OF EACH TOE, AND THE TOTALS OF EQUIPMENT IN THE FORCE.

THE INFORMATION UNDER COLUMN HEADINGS IS :

1. KEY NUMBER - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE.
2. NOMENCLATURE AND DESCRIPTION - EQUIPMENT IDENTIFICATION.
3. TOE NR / TOE NAME - UNIT IDENTIFICATION.
4. EQ QUAN - AMOUNT OF EQUIPMENT PER EACH TOE.
5. ACT/EQ - TOTAL ACTIVE ARMY EQUIPMENT IN THE FORCE.
6. NG/EQ - TOTAL NATIONALGUARD EQUIPMENT IN THE FORCE.
7. RES/EQ - TOTAL ARMY RESERVE EQUIPMENT IN THE FORCE.
8. TOT/EQ - TOTAL EQUIPMENT IN THE FORCE.
9. ACT - NUMBER OF ACTIVE ARMY UNITS IN THE FORCE.
10. NG - NUMBER OF NATIONAL GUARD UNITS IN THE FORCE.
11. RES - NUMBER OF RESERVE ARMY UNITS IN THE FORCE.
12. TOT - TOTAL NUMBER OF UNITS IN THE FORCE.

LAST REVISION TO THE DATA BASE WAS MADE ON (REVISION DATE) (** MAR 3,1981 **).

QUESTIONS SHOULD BE ADDRESSED TO JSASC-SIMJ AUTOVON 780-3182/3671).

FIGURE 24

KEY #	NOMENCLATURE/DESCRIPTION	TOE #	TOE NAME	EQ QUAN	EQUIP = UNIT * QUANTITY ACT/EQ	NAT/EQ	RES/EQ	TOT/EQ	ACT	NAT	RES	TOT
FORCE MODEL F-5												
AA0037	BN COMM ASBL	06405H***	BN 105 T	2								
		06525H***	BN 155 T	2								
		06545H***	BN 8IN SP	2								
		06555H***	BN 155 SP	2								
		06575G***	BN TARGET ACQ-CBT	2								
		06577G***	BN ACQ	2								
		06705H***	BN 105 T AIRMOBIL	2								
		06715H***	BN 155 T AIRMOBIL	2								
		06725H***	BN AERIAL ARTY	2								
		07015H***	BN	2								
		07035H***	BN AIRMOBILE	2								
		17215H***	BN TANK	2								
			TOTALS									
AA0038	TTC-39(V1) AUTOMATIC CENTRAL OF	11407H***	SIG SW CO CORPS	2								
		11409H***	SIG SPT CO CMD DP	2								
		11415H***	SIG BN AREA (103)	3								
		11417H***	CBT SIG TELECOM C	1								
		11435H***	SIG CMD DP BN,ABN	1								
		11437H***	SIG SW CO,ABN-CDR	1								
		11505G***	CO TERMINAL OPS	1								
		11701H***	SPEC REQ	1								
			TOTALS									
AA0039	TTC-39(V2) AUTOMATIC CENTRAL OF	11305H***	CMD SPT BN,T4	2								
		11307H***	SIG SW CO	2								
		11701H***	SPEC REQ	4								
			TOTALS									
AA0040	TTC-42(V2) AUTO TP CEN OFFICE E	11127H***	SIG OPS CO AED HQ	2								
		11147H***	SIG OPS CO SML HQ	1								
		11435H***	SIG CMD DP BN,ABN	2								
		11439H***	SIG SPT CO,ABN-CO	2								
		11701H***	SPEC REQ	2								
			TOTALS									
AA0041	SB-3865 AUTO SWBD (30LI)	01165H***	BN ASLT SPT HEL	1								
		05052G***	HHC GRP CBTBAT	1								
		05101G***	HHC BDE CBTBAT	1								
		05112G***	HHC GRP CONSTRUCT	1								
		05145H***	ENG BN	1								
		05155H***	BN	1								
		06201H***	HHB DIV ARTY	2								
		06302H***	HHB DIV ARTY	2								
		06616G***	BN HHB PERSHING	1								

EQUIPMENT SUMMARY BY FORCE F-5 (OBJECTIVE SYSTEM) PROVIDES EQUIPMENT AND UNIT TOTALS BY ACTIVE ARMY, NATIONAL GUARD, ARMY RESERVE AND TOTAL FORCE.

THE INFORMATION UNDER COLUMN HEADINGS IS :

1. KEY NUMBER - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE.
2. NOMENCLATURE AND DESCRIPTION - EQUIPMENT IDENTIFICATION.
3. ACT/EQ - TOTAL ACTIVE ARMY EQUIPMENT IN THE FORCE.
4. NG/EQ - TOTAL NATIONALGUARD EQUIPMENT IN THE FORCE.
5. RES/EQ - TOTAL ARMY RESERVE EQUIPMENT IN THE FORCE.
6. TOT/EQ - TOTAL EQUIPMENT IN THE FORCE.
7. ACT - NUMBER OF ACTIVE ARMY UNITS IN THE FORCE.
8. NG - NUMBER OF NATIONAL GUARD UNITS IN THE FORCE.
9. RES - NUMBER OF RESERVE ARMY UNITS IN THE FORCE.
10. TOT - TOTAL NUMBER OF UNITS IN THE FORCE.

LAST REVISION TO THE DATA BASE WAS MADE ON (REVISION DATE) (** MAR 3,1981 **).

QUESTIONS SHOULD BE ADDRESSED TO JSASC-SIMO AUTOVON 290-3182/3671.

FIGURE 25

EQUIPMENT = UNIT * QUANTITY

KEY #	NOMENCLATURE/DESC	ASSEMBLAGES ACT ARMY	NAT GUARD	RES ARMY	TOT/EQ	NBR. OF UNITS ACT	NAT	RES	TOT
FORCE MODEL F-5 TACTICAL COMMUNICATIONS CONTROL FACILITIES									
AA0118	TSQ-131(V3)				COMM NODAL CTRL ELEM.				
AA0324	MSC-31				OPERATIONS CEN COMM				
FORCE MODEL F-5 SWITCHING									
AA0038	TTC-39(V1)				AUTOMATIC CENTRAL OFFICE				
AA0039	TTC-39(V2)				AUTOMATIC CENTRAL OFFICE				
AA0040	TTC-42(V2)				AUTO TP CEN OFFICE (350L)				
AA0041	SB-3865				AUTO SWBD (30L)				
AA0042	SB-3865				AUTO SWBD (60L)				
AA0043	SB-22				SWBD TELEPHONE MANUAL				
AA0056	TYC-39				AUTO MESSAGE SW/OX-56				
AA0059	TTC-42(V1)				AUTO TP CEN OFFICE (75L)				
AA0098	COMM MOD				COMM MODULE (ULMS)				
AA0119	SB-993				SWITCHBOARD MANUAL				
FORCE MODEL F-5 TERMINALS									
AA0053	C-5709				COMM CONTROL UNIT				
AA0053	MSE-AU				ACCESS UNIT				
AA0080	KY-90				DGTL NET RAD INT UNIT				
AA0083	TA-938				TELEPHONE SET				
AA0090	KY-68				DIG SECURE TP				
AA0091	HYC-68/TSEC				EXTENSION TEL				
AA0092	TA-312				TELEPHONE SET				
AA0095	TA-1				TELEPHONE SET				
AA0097	TA-287				REPEATER TELEPHONE				
AA0121	MST				MOBILE SUB TERM (TERM)				
AA0141	TA-954				DIG NON-SEC TP				
AA0150	CV-DGTL				SECURE CONVERTER (1 PORT)				
AA0206	CV-3591				ADV NB DIG VOC TERM				
AA0221	TA-978				TELEPHONE SIG INTERFACE				
AA0339	TA-264				TELEPHONE SET				
AA0340	TA-341				TELEPHONE SET				
AA0341	TA-938				TELEPHONE SET				
AA0357	TA-236				TELEPHONE SET				
AA0396	PLRS				PLRS BASIC UNIT				
AA0397	PLRS				PLRS MANPACK KIT				
AA0399	PLRS				PLRS SURFACE VEH KIT				
AA0400	PLRS				PLRS AIRBORNE VEH KIT				
AA0401	PLRS				PLRS AUX GRND KIT				
AA0402	PLRS				PLRS PORTABLE TEST UNIT				
AA0447	TA-984				DIG NON-SEC TP (NON-RUG)				
AA0465	CV-DGTL				SECURE CONVERTER (3 PORT)				
AA0469	PLRS				PLRS MANPACK UNIT				
AA0470	PLRS				PLRS SURFACE VEH UNIT				
AA0471	PLRS				PLRS AIRBORNE VEH UNIT				
FORCE MODEL F-5 RECORD-TRAFFIC									

EQUIPMENT ASSEMBLAGES BY FORCE F-5 (OBJECTIVE SYSTEM) PROVIDES THE NUMBER OF ASSEMBLAGES, AMOUNT OF COMPONENTS PER ASSEMBLAGES, AND TOTALS OF COMPONENTS IN THE FORCE.

THE INFORMATION UNDER COLUMN HEADINGS IS :

1. ASSL KEY # THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE
2. COMP KEY # THE COMPONENT NUMBER IN THE DATA BASE.
3. NOMENCLATURE AND DESCRIPTION - EQUIPMENT IDENTIFICATION.
4. QUAN/ASSL - QUANTITY OF EACH COMPONENT PER ASSEMBLAGE.
5. ACT/EQ - TOTAL ASSEMBLAGES AND COMPONENTS FOR ACTIVE ARMY IN THE FORCE.
6. NG/EQ - TOTAL ASSEMBLAGES AND COMPONENTS FOR NATIONAL GUARD IN THE FORCE.
7. RES/EQ - TOTAL ASSEMBLAGES AND COMPONENTS FOR RESERVE ARMY IN THE FORCE.
8. TOT/EQ - TOTAL ASSEMBLAGES AND COMPONENTS IN THE FORCE.
9. ACT - NUMBER OF ACTIVE ARMY UNITS IN THE FORCE.
10. NG - NUMBER OF NATIONAL GUARD UNITS IN THE FORCE.

RES - NUMBER OF RESERVE ARMY UNITS IN THE FORCE.
TOT - TOTAL NUMBER OF UNITS IN THE FORCE.

LAST REVISION TO THE DATA BASE WAS MADE ON (REVISION DATE) (** MAR 3,1981 **).

QUESTIONS SHOULD BE ADDRESSED TO USASC-SIMD AUTOVON 780-3182/3671.

FIGURE 26

EQUIPMENT = UNIT * QUANTITY

KEY NO.	KEY NO.	NOMENCLATURE / DESC	QUAN-ASSBL	ASSEMBLAGES ACT ARMY	NAT GUARD	RES ARMY	TOT/EQ	NBR. OF UNITS ACT	NAT	RES	TOT
**FORCE MODEL F-50* TACTICAL COMMUNICATIONS CONTROL FACILITIES											
AA0118	(CONT)	TSQ-111(V3)	COMM NODAL CTRL ELEM								
	AA0102	HGK-82	LOOP KEY GEN CONTROL	002							
	AA0103	HGK-83	AUTO KEY DISTR GEN	001							
	AA0105	KG-83	KEY VARIABLE GENERATOR	001							
	AA0108	KG-82	LOOP KEY GENERATOR	016							
	AA0109	KG-81	TRUNK ENCYP DEVICE	032							
	AA0111	KY-58	SPEECH SEC EQUIP ABN	001							
	AA0115	KYK-13	KEY GUN	001							
	AA0116	KYK-15	NET CONTROL DEVICE	001							
	AA0151	MD-1024	HS CABLE DVR MODEM	001							
	AA0152	MD-1023	LS CABLE DVR MODEM	006							
	AA0153	MD-1025	RLGH-CABLE DVR MODEM	004							
	AA0227	HGF-82	COMMON EQUIP FRAME	001							
	AA0229		ENV CON UNIT 18K BTU	001							
	AA0239	KIK-18	CODE CHANGER KEY	001							
	AA0242	HGF-92	FRAME (LKG)	002							
	AA0504	LS-147F	INTERCOM	002							
	AA0572		FILL CABLE (CRYPTO)	001							
**FORCE MODEL F-50* SWITCHING											
AA0038		TTC-39(V1)	AUTOMATIC CENTRAL OFFICE								
	AA0090	KY-68	DIG SECURE TP	002							
	AA0094	KOI-18	TAPE READER	001							
	AA0102	HGK-82	LOOP KEY GEN CONTROL	003							
	AA0103	HGK-83	AUTO KEY DISTR GEN	002							
	AA0104	HGK-84	INTERFACE CONTROL UNIT	002							
	AA0105	KG-83	KEY VARIABLE GENERATOR	002							
	AA0108	KG-82	LOOP KEY GENERATOR	019							
	AA0109	KG-81	TRUNK ENCYP DEVICE	006							
	AA0115	KYK-13	KEY GUN	002							
	AA0116	KYK-15	NET CONTROL DEVICE	002							
	AA0232	HGF-85	COMMON EQUIP FRAME	001							
	AA0233	HGF-91	FRAME (TED)	002							
	AA0236	HY*-71	RECHARGER BTRY PWR SUPPLY	002							
	AA0239	KIK-18	CODE CHANGER KEY	001							
	AA0248	KG-82 DVP	LOOP KEY GENERATOR (DVP)	013							
	AA0254	HGK-82 DVP	LOOP KEY GEN CONTROL(DVP)	001							
	AA0572		FILL CABLE (CRYPTO)	001							
AA0039		TTC-39(V2)	AUTOMATIC CENTRAL OFFICE								
	AA0071	S-280	SHELTER	002							
	AA0090	KY-68	DIG SECURE TP	002							
	AA0092	TA-312	TELEPHONE SET	001							
	AA0094	KOI-18	TAPE READER	001							
	AA0102	HGK-82	LOOP KEY GEN CONTROL	005							
	AA0103	HGK-83	AUTO KEY DISTR GEN	002							
	AA0104	HGK-84	INTERFACE CONTROL UNIT	004							

COMPONENTS TO ASSEMBLAGES BY FORCE F-5 (OBJECTIVE SYSTEM) EXTRACTS THE COMPONENTS OF ASSEMBLAGES AND SHOWS ALL THE ASSEMBLAGES OF WHICH THEY ARE A PART AND BY QUANTITY FOR THE ACTIVE ARMY, NATIONAL GUARD, ARMY RESERVE AND TOTAL FORCE.

THE INFORMATION UNDER COLUMN HEADINGS IS :

1. COMP KEY # THE COMPONENT NUMBER IN THE DATA BASE.
2. ASBL KEY # THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE
3. NOMENCLATURE AND DESCRIPTION - EQUIPMENT IDENTIFICATION.
4. QUAN/ASSL - QUANTITY OF EACH COMPONENT PER ASSEMBLAGE.
5. ACT/EQ - TOTAL ASSEMBLAGES AND COMPONENTS FOR ACTIVE ARMY IN THE FORCE.
6. NG/EQ - TOTAL ASSEMBLAGES AND COMPONENTS FOR NATIONAL GUARD IN THE FORCE.
7. RES/EQ - TOTAL ASSEMBLAGES AND COMPONENTS FOR RESERVE ARMY IN THE FORCE.
8. TOT/EQ - TOTAL ASSEMBLAGES AND COMPONENTS IN THE FORCE.
9. ACT - NUMBER OF ACTIVE ARMY UNITS IN THE FORCE.
10. NG - NUMBER OF NATIONAL GUARD UNITS IN THE FORCE.

RES - NUMBER OF RESERVE ARMY UNITS IN THE FORCE.

TOT - TOTAL NUMBER OF UNITS IN THE FORCE.

LAST REVISION TO THE DATA BASE WAS MADE ON (REVISION DATE) *** MAR 3,1981 ***.

QUESTIONS SHOULD BE ADDRESSED TO USASC-SIKO AUTOVON 750-3182/3671.

FIGURE 27

KEY NO.	KEY NH.	NOMENCLATURE / DESC	QUAN-ASBL	EQUIPMENT • UNIT • QUANTITY •••••••••••ASSEMBLAGES••••••••••• ACT ARMY	NAT GUARD	RES ARMY	TOT/EQ	:••••NBR. OF UNITS•••• ACT	NAT	RES	TOT
••FORCE MODEL 8-5•• CONSEC											
AA0102	(CON'T)	HGX-82	LOOP KEY GEN CONTROL								
	AA0039	TTC-39(V2)	AUTOMATIC CENTRAL OFFICE	5							
	AA0044		CTOC COMM ASBL	1							
	AA0056	TYC-39	AUTO MESSAGE SW/DX-54	6							
	AA0058	TSQ-111(V2)	COMM NODAL CTRL ELEM	2							
	AA0075	TYQ-16	COMM SYS CTRL ELEM	2							
	AA0110	MTCC/ULMS	MOD TACT COMM CEN W/ULMS	1							
	AA0118	TSQ-111(V3)	COMM NODAL CTRL ELEM	2							
	AA0137	MTCC W/O	MOD TACT COMM CEN	1							
AA0103		HGX-83	AUTO KEY DISTR GEN								
	AA0038	TTC-39(V1)	AUTOMATIC CENTRAL OFFICE	2							
	AA0039	TTC-39(V2)	AUTOMATIC CENTRAL OFFICE	2							
	AA0056	TYC-39	AUTO MESSAGE SW/DX-54	1							
	AA0058	TSQ-111(V1)	COMM NODAL CTRL ELEM	1							
	AA0118	TSQ-111(V3)	COMM NODAL CTRL ELEM	1							
AA0104		HGX-84	INTERFACE CONTROL UNIT								
	AA0038	TTC-39(V1)	AUTOMATIC CENTRAL OFFICE	2							
	AA0039	TTC-39(V2)	AUTOMATIC CENTRAL OFFICE	4							
	AA0056	TYC-39	AUTO MESSAGE SW/DX-54	2							
AA0105		KG-83	KEY VARIABLE GENERATOR								
	AA0038	TTC-39(V1)	AUTOMATIC CENTRAL OFFICE	2							
	AA0039	TTC-39(V2)	AUTOMATIC CENTRAL OFFICE	2							
	AA0056	TYC-39	AUTO MESSAGE SW/DX-54	1							
	AA0058	TSQ-111(V1)	COMM NODAL CTRL ELEM	1							
	AA0118	TSQ-111(V3)	COMM NODAL CTRL ELEM	1							
AA0108		KG-82	LOOP KEY GENERATOR								
	AA0011		ACR CP COMM SPT TRACK	8							
	AA0031		DTOC COMM ASBL	8							
	AA0033		DISCOM COMM ASBL	8							
	AA0036		DIV BICC COMM ASBL	8							
	AA0038	TTC-39(V1)	AUTOMATIC CENTRAL OFFICE	19							
	AA0039	TTC-39(V2)	AUTOMATIC CENTRAL OFFICE	40							
	AA0040	TTC-42(V2)	AUTO TP CEN OFFICE (150L)	12							
	AA0044		CTOC COMM ASBL	8							
	AA0056	TYC-39	AUTO MESSAGE SW/DX-54	48							
	AA0058	TSQ-111(V3)	COMM NODAL CTRL ELEM	16							
	AA0059	TTC-42(V1)	AUTO TP CEN OFFICE (75L)	6							
	AA0075	TYQ-16	COMM SYS CTRL ELEM	16							
	AA0110	MTCC/ULMS	MOD TACT COMM CEN W/ULMS	8							
	AA0118	TSQ-111(V3)	COMM NODAL CTRL ELEM	16							
	AA0137	MTCC W/O	MOD TACT COMM CEN	8							
AA01..		KG-81	TRUNK ENCYP DEVICE								
	AA0001	TRC-174	RADIO REPEATER SET	3							

APPENDIX B

IMPACT EVALUATION PROCESSES AND PROGRAMS

1.0 INTRODUCTION

The computer outputs illustrated and described in this appendix support the impact evaluation processes discussed in Section 2.0. The data presented is sufficient to determine that the evaluation procedure is valid and can be used to detail the impacts of change to the architecture. It is assumed that this appendix will be the basis for demonstration of the evaluation process when current system problems caused by conversion to UNIVAC are corrected.

2.0 SELECTED FORCE DEFINITION

A selected force consisting of manually selected Standard Requirements Code (SRC) of various military units (Company, Battalion, Brigade) is used as a model for evaluating change impact. The size of the force selected can vary depending upon the scope of the evaluation. In selecting the force the analyst decides the quantity of each SRC to be included in the force and specifies at what level roll-up will occur. A roll-up SRC is discussed and illustrated in Section 4.1.

3.0 PERSONNEL AND EQUIPMENT COST COMPARISONS

This section illustrates the TRADOC TOE cost program TEP 19 which compares selected TOE and provides basic cost data for O&S personnel pay and allowance and equipment. These are the prime drivers of life cycle costs. The report provided by this program is in two major sections; personnel costs and equipment costs. The personnel section lists annual costs by grade and military occupation speciality (MOS) and prints out strength level and total cost difference. Table B-1 is an example of personnel cost comparison of the current TOE 11035H000 AIM Division Signal Battalion to TOE 11035S610 which is the planning TOE for the Heavy Division Signal Battalion. The last entry on this example shows a personnel strength requirement for TOE 11035H000 of 702 as compared to a personnel requirement of 801 for TOE 11035S610. By following the columns across to the extreme lower right it can be determined that the additional 99 personnel required for TOE 11035S610 will result in an additional annual cost of $1,165,270.

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SRC 11035H000 TITLE SIGNAL BN, ??M DIV VS SRC 110355610 TITLE SIG BN - HVY DIV (HVY-86)

WITH NO CHANGES WITH NO CHANGES

PART I PERSONNEL ALLOWANCES ANALYSIS

GRADE	MOS	LEVEL I STRENGTH			ANNUAL COST		TOTAL COST
		11035H000	110355610	DIFFERENCE	11035H000	110355610	DIFFERENCE
	31V13	6	9	3-	$56,988	$85,482	$28,494-
	31T13	1	1	0	$9,498	$9,498	$0
	36C13	46	53	7-	$436,908	$503,394	$66,486-
	36H13	1	1	0	$9,498	$9,498	$0
	36K13	2	3	1-	$18,996	$28,494	$9,498-
	41E13	1	0	1	$9,498	$0	$9,498
	52C13	1	1	0	$9,498	$9,498	$0
	63B13	16	25	9-	$151,968	$237,450	$85,482-
	71L13	3	4	1-	$28,494	$37,992	$9,498-
	72E13	24	31	7-	$227,952	$294,438	$66,486-
	75B13	1	2	1-	$9,498	$18,996	$9,498-
	76C13	5	6	1-	$47,490	$56,988	$9,498-
	76Y13	6	8	2-	$56,988	$75,984	$18,996-
	81E13	1	1	0	$9,498	$9,498	$0
	84B13	2	0	2	$18,996	$0	$18,996
	84C13	1	0	1	$9,498	$0	$9,498
	94B13	7	10	3-	$66,486	$94,980	$28,494-
		214	255	41-	$2,032,572	$2,421,990	$389,418-
E-3	05B13	22	14	8	$184,800	$117,600	$67,200
	05C13	19	16	3	$159,600	$134,400	$25,200
	26L13	1	3	2-	$8,400	$25,200	$16,800-
	26Q13	0	5	5-	$0	$42,000	$42,000-
B12	31E13	2	3	1-	$16,800	$25,200	$8,400-
	31J13	6	3	3	$50,400	$25,200	$25,200
	31M13	52	53	1-	$436,800	$445,200	$8,400-
	31V13	6	7	1-	$50,400	$58,800	$8,400-
	31S13	5	0	5	$42,000	$0	$42,000
	31T13	1	0	1	$8,400	$0	$8,400
	36C13	45	52	7-	$378,000	$436,800	$58,800-
	36H13	1	2	1-	$8,400	$16,800	$8,400-
	36K13	2	3	1-	$16,800	$25,200	$8,400-
	63B13	19	22	3-	$159,600	$184,800	$25,200-
	72E13	43	42	1	$361,200	$352,800	$8,400
	75B13	2	1	1	$16,800	$8,400	$8,400
	76C13	1	0	1	$8,400	$0	$8,400
	76H13	4	3	1	$33,600	$25,200	$8,400
	76Y13	3	2	1	$25,200	$16,800	$8,400
	84B13	4	0	4	$33,600	$0	$33,600
	94B13	6	7	1-	$50,400	$58,800	$8,400-
		244	238	6	$2,049,600	$1,999,200	$50,400
TOTALS		702	801	99-	$7,377,952	$8,543,222	$1,165,270-

TABLE B-1 TEP 19 Example Personnel Cost Data

As shown on Table B-2, the second section of this report compares equipment cost. For example, the last entry on this table shows that Radio Set, AN/GRC-( )-(V5) costs $1920 each. The table shows that TOE 11035H000 is not authorized any of these radios but TOE 11035S610 has an authorized allowance of 68. The last column shows that the addition of 68 of these radio sets to TOE 11035S610 will cost $130,560. Considerable manual effort is required to sum the costs for each unit into the total cost for the entire selected force. In the future it may be possible to modify the programs illustrated in Section 4.0 below to roll-up and summarize equipment cost and O&S personnel cost in a manner similar to the effectiveness data. In addition, the output report of TEP 19 provides changes in quantity and type of signal equipment planned in the selected units, and the program identifies by MOS code and grade the number of O&M signal personnel assigned in the planned units. Manual screening is required to identify only signal personnel and equipment. When the screening process is complete, equipment change data and signal personnel evaluation data is extracted and prepared as input to the system definition and evaluation programs discussed below.

4.0 SYSTEM DEFINITION AND EFFECTIVENESS MEASUREMENT[1]

4.1 SYSTEM DEFINITION MODEL (TOELIST)

This section describes previous programming actions taken to implement an Equipment Assignments to Force Units Procedure which results in a force - equipment system definition called TOELIST.

The AIIMS Data Base contains the equipment issue basis for current, three Transition and the Objective Systems of INTACS. The data base itself is classified because it contains the Program Objective Memorandum (POM) force and consequently the equipment required to support that force. By specifying an unclassified generic force model, the equipment issue basis by TOE unit in the AIIMS Data Base can be used to determine equipment requirements for a selected force.

Within the selected force file, a "roll-up" SRC is one which will represent a summation of other "sub-SRCs". For example, Table B-3 is a computer printout of the force file used to demonstrate the System Definition Program and is a doctrinal Armored Division with its associated Corps units.

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[1]INTACS UPDATE, Volume V, Study of Battlefield Data Systems Burden on Tactical Communications, Integrated Model Methodology, August 1979.

SRC 11035H000 TITLE SIGNAL BN, A14 DIV VS SRC 110355610 TITLE SIG BN - HVY DIV (HVY-86)

WITH NO CHANGES WITH NO CHANGES

PART II EQUIPMENT ALLOWANCE COMPARISON

LIN NUMBER	ITEM DESCRIPTION	COST PER ITEM	LEVEL 1 EQUIPMENT 11035H000	110355610	DIFF	COST DIFFERENCE
V14663	VOLTMETER ELECTRONIC: AN/URM-145	464.57	3	3	0	$0.
V15488	VOLTMETER ELECTRONIC: ME-459/U	684.97	3	3	0	$0.
Z15039	CHARGER RADIAC DETECTOR: PP-4370/PD	900.00	0	6	6-	$5,400.-
Z17232	COMPUTER INDICATOR: CP-696/JD	2000.00	0	3	3-	$6,000.-
Z18746	CONTROL COMMUNICATIONS MODE SELECTOR: C-10377( )GTC	2143.00	0	2	2-	$4,286.-
Z19342	COPIER: DOCUMENT TACTICAL	4500.00	0	12	12-	$54,000.-
Z19374	COUNTER ELECTRONIC DIGITAL READOUT: AN/USM-459	1900.00	0	3	3-	$5,700.-
Z25259	ELECT KEY GENERATOR DEDICATED LOOP ENCRYPTION DEVICE: TSEC/KG-84	7750.00	0	22	22-	$170,500.-
Z29421	GENERATOR SIGNAL: SG-1144 ( )/U	2200.00	0	12	12-	$26,400.-
Z29536	DEL-DEVELOPMENT TERMINATED	2200.00	0	3	3-	$6,600.-
Z38262	TACTICAL RECORD TRAFFIC FACSIMILE: AN/UXC-4	30000.00	0	14	14-	$420,000.-
Z41636	MASK CHEMICAL-BIOLOGICAL: MULTI PURPOSE	66.00	0	868	868-	$57,288.-
Z45258	MULTIMETER: AN/USM-451	163.00	0	5	5-	$815.-
Z49812	PLRS BASIC USER UNIT:	7600.00	0	23	23-	$174,800.-
Z49814	PLRS SURFACE VEHICLE INSTALLATION KIT:	3625.00	0	23	23-	$83,375.-
Z49817	PLRS PORTABLE TEST UNIT (PTU):	2220.00	0	5	5-	$111,000.-
Z50161	POSITION LOCATION REPORTING SYSTEM: MASTERUNIT	303000.00	0	5	5-	$1,540,000.-
Z50191	POWER PLANT ELEC DED TM: 5KW 60HZ 2EA MTD ON M1038A3 AN/MJQ-16	24550.00	0	5	5-	$122,750.-
Z50195	POWER PLANT ELEC DED TM: 10KW 60HZ 2EA MTD ON M1038A3 AN/MJQ-18	28200.00	0	6	6-	$169,200.-
Z50202	POWER SUPPLY: HYP-2/TSEC	424.32	2	1	1	$424.
Z50310	REPLACED BY P41047 01/01	400.00	0	2	2-	$800.-
Z53646	RADIACMETER: TM-185/UD	160.00	0	18	18-	$2,880.-
Z56328	RADIO SET: AN/GRC-( )-(V5)	1920.00	0	68	68-	$130,560.-

TABLE B-2 TEP 10 Example Equipment Cost Data

05145H	ENG BN	105145H	1
06300H	DIV ARTY	106302H	1
06300H	DIV ARTY	106307H	1
06300H	DIV ARTY	106365H	3
06300H	DIV ARTY	106395H	1
07045H	INF BN	507045H	1
11035	SIG BN	111036	1
11035	SIG BN	111037	1
11035	SIG BN	111038	1
17004H	DIV HHC	117004H	1
17035H	TK BN	617035H	1
17042H	BDE HHC	317042H	1
17087H	AVN CO	117087H	1
17105H	ACS	117105H	1
19027H	MP CO	119027H	1
25002H	DISCOM	108035H	1
25002H	DISCOM	129003H	1
25002H	DISCOM	129005H	1
25002H	DISCOM	129035H	1
30165H	CEWI BN	130165H	1
44325H	ADA BN	144326H	1
44325H	ADA BN	144327H	2
44325H	ADA BN	144328H	2
	CORPS UNITS	105035H	3
	CORPS UNITS	106401H	1
	CORPS UNITS	106445H	3
	CORPS UNITS	106455H	2
	CORPS UNITS	106577G	1
	CORPS UNITS	106595H	1
	CORPS UNITS	107357H	1
	CORPS UNITS	109520H	1
	CORPS UNITS	111178	1
	CORPS UNITS	131107H	1
	CORPS UNITS	133500H	2
	CORPS UNITS	141207H	1
	CORPS UNITS	144246H	1
	CORPS UNITS	144247H	4

TABLE B-3 Force_Units File

The SRC 06300H given in the left-most column is a "roll-up" SRC for Division Artillery (DIVARTY). Its associated "sub SRCs" or subordinate units are listed in third column from the left and the quantity of those units in the right-most column. Other "roll-ups" are made for the Division Signal Battalion (SIG BN), Division Support Command (DISCOM), Division Air Defense Artillery Battalion (ADA BN) and for the Corps units located in the Division area. The purpose of this "roll-up" process it to allow the analyst to view the equipment requirements within certain critical functional areas i.e. fire support (DIVARTY), command and control (SIG BN), administration and logistics (DISCOM) and air defense (ADA BN).

In order to allow for broader use of this process and preclude the program from "bombing" due to a SRC that is specified in the force file but not in the AIIMS Data Base, a comparison routine was developed. Its purpose is to scan the force file input, compare with the SRCs in the specified AIIMS Force Model and alert the analyst as to those SRCs not available on file. Table B-4 is a reproduction of this Force File/AIIMS Data Base SRC Filter. At the lower left hand corner of the table in the program's output it indicates that of the SRCs contained in the force file, 06307H (Division Target Acquisition Battery), 30165H (Division CEWI Battalion) and 41207H (Corps Civil Affairs Company) are not contained in the AIIMS Data Base. At this point the analyst must either develop the equipment issue basis and inject it or delete that unit from the selected force. For the output example given later, the issue basis for SRCs 06307H and 41207H were manually derived, input to a separate data base and injected in the program. The issue basis for the CEWI Bn (30165H) was not input for the example program output.

With the foregoing inputs, the program lists the equipment quantity in each SRC, multiplies the number of like SRCs by the equipment in each and sums the total equipment by "roll-up" SRC number. Table B-5 is a sample of the output for SRC 06300H, DIVARTY.

The final step in the program sums the roll-up SRCs to arrive at the total number of each type of equipment required to support the whole selected force. Table B-6 is the sample output of the System Definition Program for the force contained in Table B-3 in terms of the INTACS Objective System equipments.

A program is available to inject changes of unit and equipments to the System as represented by TOELIST.

```
          PROGRAM FILTER    73/73   OPT=1                    FTN 4.6+460    05/16/79  13.24.37   PAGE

6200      1                 PROGRAM FILTER(TAPE1,TAPE2,OUTPUT)
                      200   READ(1,10) IUNIT
                      10    FORMAT(T40,A6)
                            IF(EOF(1).EQ.1) STOP
          5           100   READ(2,20) ITDE
                      20    FORMAT(A6)
                            IF(EOF(2).EQ.1) GO TO 70
                            IF(ITDE.EQ.IUNIT) GO TO 15
                            GO TO 100
          10          15    REWIND 2
                            GO TO 200
                      70    PRINT 71,IUNIT
6300                  71    FORMAT(10X,A6,' IS NOT IN THE FILE',/)
                            REWIND 2
          15                GO TO 200
                            END


          SYMBOLIC REFERENCE MAP (R=1)

     ENTRY POINTS
      6211  FILTER

     VARIABLES     SN  TYPE          RELOCATION
      6303  ITDE      INTEGER                    6302  IUNIT     INTEGER

     FILE NAMES       MODE
6400  4130  OUTPUT    FMT              0  TAPE1     FMT          2054  TAPE2     FMT

     EXTERNALS          TYPE   ARGS
          EOF           REAL      1

     STATEMENT LABELS
      6252  10       FMT                  6231  15                    6261  20       FMT
      6234  70                            6270  71       FMT          6221  100
      6212  200

     STATISTICS
       PROGRAM LENGTH              1008     64
       BUFFER LENGTH              62048   3204
            550C08 CM USED

          063C7H IS NOT IN THE FILE

          30165H IS NOT IN THE FILE

6500      41207H IS NOT IN THE FILE
```

TABLE B- 4 Force File/AIIMS Data Base SRC Filter

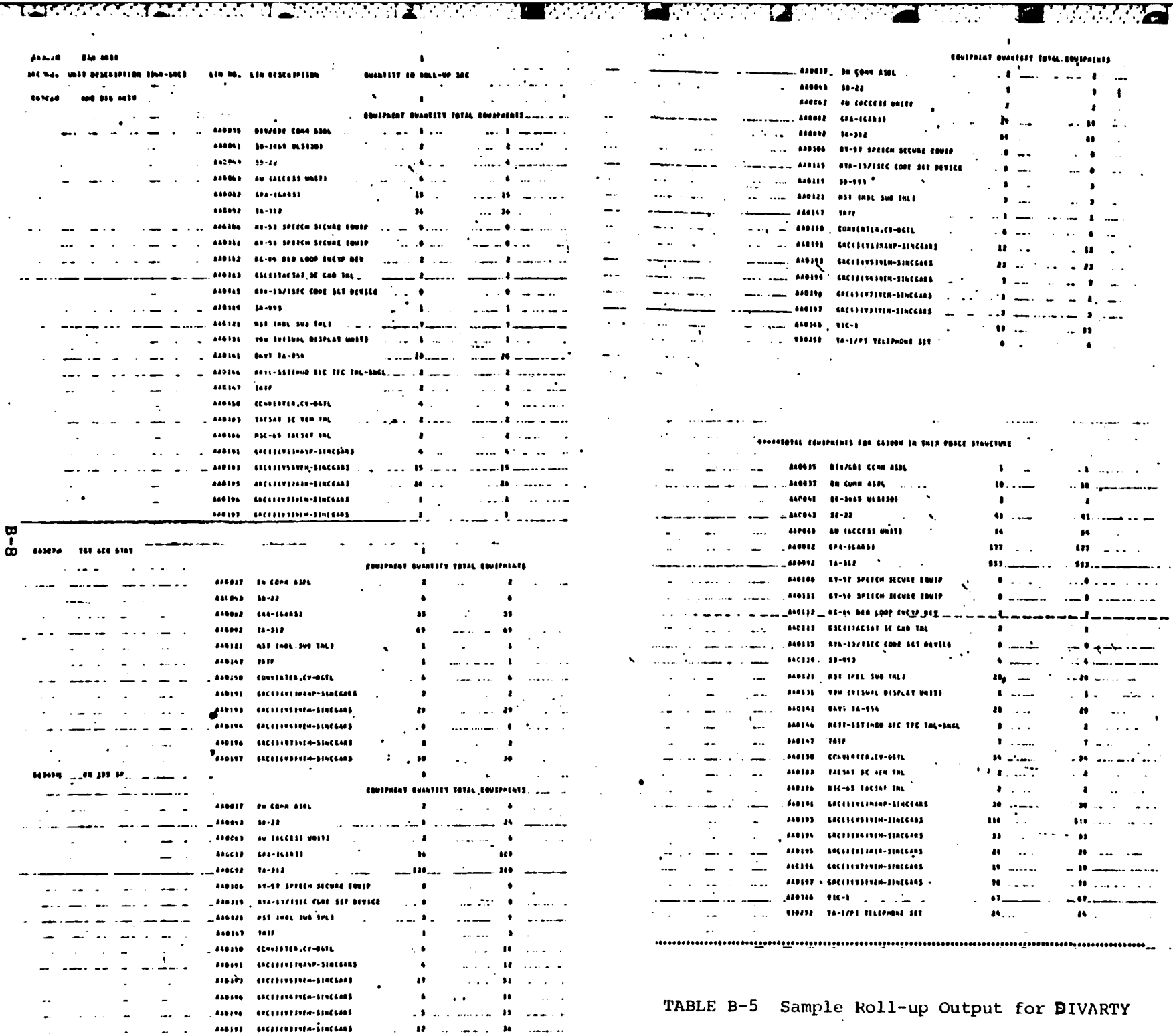


TABLE B-5 Sample Roll-up Output for DIVARTY

TOTAL EQUIPMENTS FOR ALL UNITS

LIN NO	LIN DESCRIPTION	QUANTITY
AA0001	TRC-174 RLU RPTR	6
AA0012	ACS CP COMM TRACK	2
AA0013	A/M BDE CP COMM TRACK	6
AA0016	TSC-(M)	3
AA0018	DIV SSO COMM ASBL	1
AA0021	MSE (MBL SUB CNTRL)	6
AA0024	MS77 TAC CP	16
AA0026	BN CP COMM TRACK	22
AA0031	DTOC COMM ASBL	1
AA0032	DTOC STAFF COMM ASBL	1
AA0033	DISCOM COMM ASBL	1
AA0034	FASC/SPT BN COMM ASBL	3
AA0035	DIV/BDE COMM ASBL	3
AA0036	DIV/DICC COMM ASBL	1
AA0037	BN COMM ASBL	22
AA0041	SB-3865 ULS(30)	17
AA0042	SB-3865 ULS(60)	6
AA0043	SB-22	226
AA0048	DCS-OUT(LAST COMM SYS-OUTSTA	12
AA0055	PRC-113 PTBL UHF/AM TCR	12
AA0063	AU SACCESS UNIT)	48
AA0065	MSE CONTROL FACILITY	1
AA0073	TACSAT AJ/CNTL MODEM	3
AA0077	TDC(TAC DOCUMENT COPIER)	16
AA0080	KY-90 SONRIU	7
AA0082	CRA-(CARS)	703
AA0085	TRC RDO RPTR/DROPCINSERT	15
AA0090	KY-68 DSVT	16
AA0091	KYR-68/TSEC EXTENSION TEL	32
AA0092	TA-312	2641
AA0099	TYC-11 ULPS (UNIT LEV MSG SWT	3
AA0106	KY-57 SPEECH SECURE EQUIP	0
AA0111	KY-58 SPEECH SECURE EQUIP	0
AA0112	KG-84 DED LOOP ENCYP DEV	94
AA0113	GSCE(TACSAT SC GND TRL	13
AA0115	KYR-11/TSEC CIPE SET DEVICE	0
AA0118	TSC-11[[[[[[[V]] CACE	1
AA0119	SB-993	135
AA0121	MST (MBL SUB TRL)	215
AA0131	VDU (VISUAL DISPLAY UNIT)	6
AA0135	TACSAT MC DAMA MODEM	3
AA0137	MTCC (MOBUL TAC COMM CNTL)	3
AA0141	DSVT TA-954	420
AA0146	RATT-SS1(MOD REC TPC TRL-SNGL	39
AA0147	TATP	49
AA0150	CONVERTER,CV-0GTL	200
AA0163	TACSAT SC VEH TRL	30
AA0165	PSC-1 TACSAT MANPACK TRL	2
AA0166	MSC-65 TACSAT TRL	13
AA0187	PRC-68 A L UNIT TCR	258
AA0188	PRC-70 RDO SET	14
AA0191	GRC[[[V1]MANP-SINCGARS	543
AA0192	GRC[[[V2]VEH-SINCGARS	293
AA0193	GRC[[[V3]VEH-SINCGARS	865
AA0194	GRC[[[V4]VEH-SINCGARS	711
AA0195	GRC[[[V1]AIR-SINCGARS	220
AA0196	GRC[[[V7]VEH-SINCGARS	92
AA0197	GRC[[[V9]VEH-SINCGARS	592
AA0327	CSZ-00	4
AA0339	TA-984	2
AA0366	VIC-1	150
AA0376	ARC-115	1
AA0377	ARC-116	1
AA0378	TSC-61	1
AA0380	TSC-71	1
0906A1	AN/PRC-24 RADIO SET	1
0908A2	TA-1/PT TELEPHONE SET	775

TABLE B-6 Sample Output of Equipment Assignment Program for Force Listed in Table B-3 for INTACS Objective System Equipments. (TOELIST)

4.2 EFFECTIVENESS MEASUREMENT (MOETOELIST)

This section describes programming efforts to implement the Equipment Related MOE Effectiveness Measurement Procedure called MOETOELIST. The procedure is essentially a set of straight-forward arithmetic calculations aimed at deriving eleven of the INTACS Measures of Effectiveness (MOE): Weight, Volume, Total Power, Preventive and Corrective Maintenance Total and Without Test Equipment, Personnel, Transport Vehicles, Secure Subscribers and Equipment Categories for a defined communications system. As such, it is dependent upon the output of the System Definition Program (TOELIST) previously discussed in Section 4.1. In fact TOELIST is repeated in the beginning of MOETOELIST.

An Equipment Characteristics Data Base is required as input so that the eleven MOE can be derived for whatever equipment is used to define a system. Table B-7 is a sample format of this data base with indication of the source of the data. Samples of Weight, Cube, Wattage and Maintenance data available on computer files are shown on Tables B-7 A-C. A comparison between those items output from the System Definition Program and those items contained in the Equipment Characteristics Data Base is made at the outset so that those characteristics not in the data base are indicated early in the procedure.

A sample of the output of the Equipment Related MOE Effectiveness Measurement Program, MOETOELIST, is shown in Table B-8. While the sample only shows measurements for total force as the bottom line, the preceding portions of MOETOELIST show the same eleven measurements for each SRC and roll-up unit.

5.0 CONCLUSION

The full potential of this process will be realized only when system problems that have been created by conversion to UNIVAC are corrected.

The Impact Evaluation Process is a valid procedure which can be used to assess the impact of change to architecture. The results of evaluation may be used as a basis for selection of alternate courses of action or justification for the selected course of action.

IBM FORTRAN Coding Form GX28-7327-6 U/M 050** Printed in U.S.A.

PROGRAM EQUIPMENT CHARACTERISTICS DATA BASE | GRAPHIC | PUNCH | PAGE 1 OF 25

PROGRAMMER | DATE

L	LIN	WEIGHT (POUNDS)	VOLUME (CU. FT.)	POWER (WATTS)	PM (ANNUAL MAINT. MAN HOURS) w/TEST EQ	PM w/o TEST EQ	CM (ANNUAL MAINT. MAN HOURS) w/TEST EQUIP	CM w/o TEST EQUIP	VEHICLES 1/4T:15/4T	VEHICLES 5/4T:15T	PERSONNEL	SUBSCRIBERS SECURE	SUBSCRIBERS UN-SECURE	SUBSCRIBERS TOTAL	1=YES 0=NO EMITTER	1=YES 0=NO RCVR	1=YES 0=NO BOTH	AVAILABLE DURING MVT 1=YES 0=NO	DESCRIPTION
X	XXXXX	XXXXX.X	XXXX.X	XXXXX.X	XXX.X	XXXX.X	XXX.X	XXXX.X	X	X	XX	XX	XX	XX	X	X	X	X	DO NOT PUNCH
	A0000																		TRC-174
	A0000																		TSC-93 TACSAT MC TMC
	A0000																		ACS CP COMM TRACK
	A0000																		A/M BQE CP COMM TRACK
	A0001																		
	A0001	2072.5	0010.0	0500.0	002.9	002.8			0100	0000					0	1	0		TSC-(M)
	A0001																		DIV SSO COMM ASBL
	A0001																		
	A0002	0150.0	0272.0	4500.0	003.8	003.7			0010	0010					0	1	0		TSC-85 TACSAT MC TMC MSC
	A0002																		

SOURCE: TEP 54 L-File; TEP 54 — MRPC 2 — MACRIT FILE; AIIMS; TEP 19 QQPRI; INTACS DEFINITION

TABLE B-7 Sample of Equipment Characteristics Data Base and Sources

LIN	N-O-M-E-N-C-L-A-T-U-R-E	R C C	T C C	I C H	COST	I 3 0	I 4 1	C 5 A	A R C	RIC	S C	A P A	T B E	WEIGHT	CUBE	S U B	A D J
Q53001	RADIO SET: AN/VRC-46	1	A	C 2	6025.00					B16	7G	P	U	90	1.4	S	
Q54174	RADIO SET: AN/VRC-47	1	A	C 2	6025.00					B16	7G	P	U	116	2.3	S	
Q54829	RADIO SET: AN/VRC-48	1	A	C 2	6025.00					B16	7G	P	U	138	5.9	S	
Q55114	RADIO SET: AN/VRC-49	1	A	C 2	6025.00					B16	7G	P	U	116	2.1	S	
Q56424	RADIO SET: AN/VRC-54	2	A	C 2	14767.36					B16	7G	P	U	198	3.8	S	
Q56783	RADIO SET: AN/VRC-64	1	A	C 2	2121.00					B16	7G	P	U	73	4.5	S	
Q56835	RADIO SET: AN/VRQ-1	2	F	C 2	6025.00					B16	7G	P	U	344	7.3	S	
Q57194	RADIO SET: AN/VRQ-2	2	F	C 2	6025.00					B16	7G	P	U	226	6.3	S	
Q57516	RADIO SET: AN/VRQ-3	2	F	C 2	6025.00	X	X	X		B16	7G	P	U	231	6.2		
Q57643	DEL-UNDER $3000	0	N	E	2176.00					B16				0	.0		
Q77755	RADIO SET CONTROL: C-2328/GRA-39	2	A	C 2	399.29	X	X	X		B16	2G	X	U	11	.2		
Q78282	RADIO SET CONTROL GROUP: AN/GRA-39	1	A	C 2	1202.30	X	X	X	1	B16	7G	P	U	30	.9		
Q78419	RADIO SET CONTROL GROUP: DA-1754/GRC	3	A	O 2	36.99	X	X	X		B16	2G	2	U	2	.0		
Q81457	DEL-UNDER $3000	0	N	E	1761.60					B16				0	.0		
Q85744	RADIO SET: AN/GRC-171 LESS POWER	2	A	C 2	8831.29	X	X	X		B16	7G	A	U	112	9.7		
Q85880	DEL-UNDER $3000	0	N	E	1402.20					B16				0	.0		
Q86034	DEL-UNDER $3000	0	N	E	2523.57					B16				0	.0		
Q86141	DEL-UNDER $3000	0	N	E	2284.80					B16				0	.0		
Q86356	DEL-UNDER $3000	0	N	E	1648.44					B16				0	.0		
Q87648	DEL-UNDER $3000	0	N	E	1610.24					B16				0	.0		
Q89563	RADIO TELEPRINTER SET: AN/TGR-2	1	A	C 2	57901.20					B46	7P	P	U	0	.0		
Q90063	RADIO TELETYPEWRITER SET: AN/GRC-46	1	F	C 2	21787.00	A	A	A		B16	7G	P	U	1700	211.3		
Q90100	RADIO TELETYPEWRITER SET: AN/GRC-122	1	A	C 2	21787.00	A	A	A		B16	7G	P	U	2370	264.3		
Q90120	RADIO TELETYPEWRITER SET: AN/GRC-142	1	A	C 2	21787.00	A	A	A		B16	7G	P	U	2100	314.9		
Q90201	RADIO TERMINAL SET: AN/TRC-90 LESS POWER	2	A	C 2	345488.12	A	A	A		B16	7G	P	U	5250	546.8		
Q90337	RADIO TELETYPEWRITER SET: AN/VRC-29	2	F	C 2	4000.00					B16	7G	P	U	315	10.2	S	
Q91301	RADIO TELETYPEWRITER SET: AN/VSC-2	1	A	C 2	16216.00	A	A	A		B16	7G	P	1	0	.0		
Q91302	RADIO TELETYPEWRITER SET: AN/VSC-3	1	A	C 2	4000.00					B16	7G	P	U	559	29.4	S	
Q91309	RADIO TERMINAL SET: AN/FRC-145(V)1	2	A	C 2	333060.00					B16	7G	P		0	.0		
Q91330	DEL-NO REQUIREMENTS	0	N	E	1405.38					B16				0	.0		
Q91351	RADIO TERMINAL SET: AN/FRC-146(V)1	2	A	C 2	147315.00					B16	7G	P		0	.0		
Q91352	RADIO TERMINAL SET: AN/FRC-146(V)2	2	A	C 2	147315.00					B16	7G	P		0	.0		
Q91353	RADIO TERMINAL SET: AN/FRC-146(V)3	2	A	C 2	179340.00					B16	7G	P		0	.0		
Q91354	RADIO TERMINAL SET: AN/FRC-146(V)4	2	A	C 2	179340.00					B16	7G	P		0	.0		
Q91355	RADIO TERMINAL SET: AN/FRC-146(V)5	2	A	C 2	236984.94					B16	7G	P		0	.0		
Q91356	RADIO TERMINAL SET: AN/FRC-146(V)6	2	A	C 2	236984.94					B16	7G	P		0	.0		
Q91357	RADIO TERMINAL SET: AN/FRC-146(V)7	2	A	C 2	333060.00					B16	7G	P		0	.0		
Q91358	RADIO TERMINAL SET: AN/FRC-146(V)8	2	A	C 2	141315.00					B16	7G	P		0	.0		
Q91396	RADIO TERMINAL SET: AN/GRC-67	2	A	C 2	32025.00	X	X	X		B16	7G	P	U	4020	552.1		
Q91502	RADIO TERMINAL SET: AN/GRC-163 LESS POWER	2	S	C 2	19244.54					B16	7G	P		0	.0		
Q91512	RADIO TERMINAL SET: AN/GRC-170	2	B	C 2	239360.00	A	A	A		B16	7G	P	U	4459	612.7		
Q91644	RADIO TERMINAL SET: AN/MRC-69 LESS POWER	2	B	C 2	77103.87	A	A	A		B16	7G	P	U	7250	551.4		
Q92118	RADIO TERMINAL SET: AN/MRC-73 LESS POWER	2	B	C 2	44045.38	A	A	A		B16	7G	P	U	3050	545.8		
Q92174	RADIO TERMINAL SET: AN/MRC-102 LESS POWER	2	B	C 2	98756.12	A	A	A		B16	7G	P	U	4700	552.5		
Q92186	OBSOLETE REPLACED BY Q92894 01/01	0	9	E	.00					B16				0	.0		
Q92197	RADIO TERMINAL SET: AN/MRC-127 LESS POWER	1	U	C 2	75000.00	A	A	A		B16	7G	P	6	0	.0		
Q92255	RADIO TERMINAL SET: AN/TRC-35 LESS POWER	2	B	C 2	24454.29					B16	7G	P	U	2644	110.3	S	
Q92530	RADIO TERMINAL SET: AN/TRC-80 LESS POWER	1	A	C 2	179504.75	A	A	A		B16	7G	P	U	4140	352.6		
Q92644	RADIO TERMINAL SET: AN/TRC-108 LESS POWER	2	B	C 2	35319.00	A	A	A		B16	7G	P	U	1740	229.1		
Q92848	RADIO TERMINAL SET: AN/TRC-112 LESS POWER	1	A	C 2	15870.00					B16	7G	P	U	4700	586.5	S	
Q92854	RADIO TERMINAL SET: AN/TRC-117 LESS POWER	1	A	C 2	169747.00	A	A	A		B16	7G	P	U	4500	621.1		

REPORT NUMBER 08 05/22/79

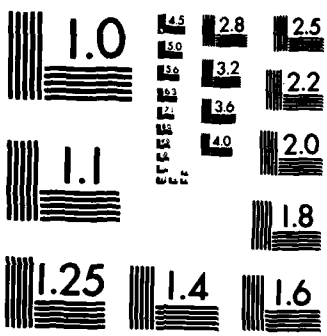
WATTAGE REQUIREMENTS

LIN	ITEM	KW	REMARKS
M01855	ELECTRONIC SHOP SM AN/ASM-189 (J37205)	M045	APP H SB700-20
M01967	ELECT SHOP SHLTR AN/ASM-146 (J42100 E	M010	APP H SB700-20
J35629	GEN ST DSL TM 60KW PU-650 60HZ	C	
J35833	GEN ST DSL ENG 5 KW 60HZ	C	
J35925	GENR ST DSL 10KW 60HZ	C	
J36363	GEN ST DSL ENG TM 30KW 60HZ PU-406	C	
J42100	GEN ST GAS ENG TM 10KW 60HZ PU-619	C	
J43918	GENERATOR 1.5 KW AC 60 HZ	C	
J45699	GENERATOR SET GAS 3 KW AC 60 HZ	C	
J49398	GENERATOR SET 10 KW AC 60 HZ	C	
J49805	GEN ST GAS ENG TRLR MT PU-332 10KW 60HZ	C	
J49946	GEN ST GAS ENG TM 10KW 60HZ PU-564	C	
P40750	POWER SUPPLY PP 6224	M000.9	EST
S53001	RADIO SET VRC 46	J	EST
S54174	RADIO SET VRC-47	J	CDC NWSLTR 7-71
S56837	SAW CIRCULAR PTBL 4 1/4 IN CUT	M001.39	
S74450	SEMITRLR VAN EXPANS	M000.36	EST
S74832	SEMI-TRAILER VAN REP PARTS	M003.	CDC NWSLTR 3-72
S75038	SEMITRLR VAN SHOP	M000.36	EST
S75175	SEMITRLR VAN SUPPLY	M000.36	EST
T10275	SHOP EQ ELEC REP (J49398)	M010	APP H SB700-20
T10432	SHOP EQ ELEC REP (J47068)	M005	APP H SB700-20
T15644	SHOP EQ MACH SHOP (J47068)	M005	APP H SB700-20
T24660	SHOP EQ AUTO MAINT (J47068)	M005	APA H SB700-20
T25639	SHOP EQ AUTO MAINT (J49398)	M010	APA H SB700-20
T30434	SHOP EQ FUEL & ELEC SYS (J49398)	M010	APP H SB700-20
U01305	KY-38	M000.2	EST
U32867	SHOP EQ AUTO MAINT (J43916)	M001.5	APP H SB700-20
U51499	TOOL KIT SMALL ARMS FP (J43918)	M001.5	APP H SB700-20
U65747	TOOL SET VEH FULL TRACK ORG MAIN(J43918)	M001.5	APP H SB700-20
X62237	TRUCK VAN EXAPANSIBLE	M000.36	EST
X62340	TRUCK VAN SHOP	M000.36	EST
Z13157	CARD PUNCH MACHINE	M000.34	IBM

NOTE - WATTAGE REQUIREMENT FOR P38588, POWER SUPPLY PP-2953.

TABLE B-7B MRPC 2 Example Wattage Report

AD-A127 621 INTEGRATED TACTICAL COMMUNICATIONS SYSTEM (INTACS) 2/2
AUTOMATED SYSTEM MANAGEMENT INFORMATION PROCESSES(U)
MARTIN MARIETTA DENVER AEROSPACE CO 30 SEP 81
UNCLASSIFIED DAAK21-79-C-0161 F/G 17/2 NL



MAST LINE/NO -- FSN -- MOS SEQUENCE

DATE	NSN	NOMENCLATURE	CMD	SOR LIN	T/C	HMRT	ANNUAL USAGE	TSA LEAD	TSD ATTCH	OPR/CREW PC	MOS	SK L	MOS TITLE	MMRS ORG OR AVUM	MMRS DS OR O	MMRS GS OR AVIM	MMRS DEPO
71335	5820008894276	RADIO SET AN/VRC-34	G	Q51339S	A	H		1			31V		TAC COMM SYS OP/MECH	31.60			
72041	5820006065768	RADIO SET AN/VRC-35	G	Q51661S	B	H		1			31E		FLD RADIO RPMN		12.70	12.50	
72041	5820006065768	RADIO SET AN/VRC-35	G	Q51661S	B	H		1			31V		TAC COMM SYS OP/MECH	37.40			
73011	5820006065768	RADIO SET AN/VRC-35	G	Q51798S	B	H		1			31E		FLD RADIO RPMN		13.00	13.00	
73011	5820006065768	RADIO SET AN/VRC-35	G	Q51798S	B	H		1			31V		TAC COMM SYS OP/MECH	37.00			
78349	5820002237415	RADIO SET AN/VRC-43	G	Q52072S	A	H		1			31E		FLD RADIO REPAIRER		6.06	7.39	
78349	5820002237415	RADIO SET AN/VRC-43	G	Q52072S	A	H		1			31V		TAC COMM SYS OP/MECH	31.20			
73011	5820008920869	RADIO SET AN/VRC-43	G	Q52183S	A	H		1			31E		FLD RADIO RPMN		15.00	17.00	
73011	5820008920869	RADIO SET AN/VRC-43	G	Q52183S	A	H		1			31V		TAC COMM SYS OP/MECH	36.00			
78349	5820002237417	RADIO SET AN/VRC-44	G	Q52394S	A	H		1			31E		FLD RADIO REPAIRER		12.15	12.77	
78349	5820002237418	RADIO SET AN/VRC-45	G	Q52716S	A	H		1			31E		FLD RADIO REPAIRER		12.13	14.80	
78349	5820002237433	RADIO SET AN/VRC-46	G	Q53001S	A	H		1			31E		FLD RADIO REPAIRER		6.06	7.39	
78349	5820002237433	RADIO SET AN/VRC-46	G	Q53001S	A	H		1			31V		TAC COMM SYS OP/MECH	31.20			
78349	5820002237434	RADIO SET AN/VRC-47	G	Q54174S	A	H		1			31E		FLD RADIO REPAIRER		9.10	12.55	
78349	5820002237434	RADIO SET AN/VRC-47	G	Q54174S	A	H		1			31V		TAC COMM SYS OP/MECH	31.80			
78349	5820002237435	RADIO SET AN/VRC-48	G	Q54829S	A	H		1			31E		FLD RADIO REPAIRER		12.15	12.77	
78349	5820002237435	RADIO SET AN/VRC-48	G	Q54829S	A	H		1			31V		TAC COMM SYS OP/MECH	32.40			
73011	5820008920866	RADIO SET AN/VRC-48	G	Q54977S	A	H		1			31E		FLD RADIO RPMN		6.15	9.77	
73011	5820008920866	RADIO SET AN/VRC-48	G	Q54977S	A	H		1			31V		TAC COMM SYS OP/MECH	32.40			
78349	5820002237437	RADIO SET AN/VRC-49	G	Q55114S	A	H		1			31E		FLD RADIO REPAIRER		12.13	14.80	
78349	5820002237437	RADIO SET AN/VRC-49	G	Q55114S	A	H		1			31V		TAC COMM SYS OP/MECH	32.40			
71335	5820000867586	RADIO SET AN/VRC-53	G	Q55510S	A	H		1			31E		FLD RADIO RPMN		3.92	7.54	
71335	5820000867586	RADIO SET AN/VRC-53	G	Q55510S	A	H		1			31V		TAC COMM SYS OP/MECH	31.50			
72041	5920009730119	RADIO SET AN/VRC-54	G	Q56424S	A	H		1			31E		FLD RADIO RPMN		5.90	12.10	
72041	5820009730119	RADIO SET AN/VRC-54	G	Q56424S	A	H		1			31V		TAC COMM SYS OP/MECH	31.50			

TABLE B-7C MRPC 2 Example Maintenance Data

LIN NO.	LIN DESCRIPTION	#/FORCE	WEIGHT	VOLUME	POWER	PM NOTE	PM TOT	CM NOTE	CM TOT	VEH	PRSNL	SECSU
AAC001	TAC-174 KDU RPTR	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC012	ACS CP COMM TRACK	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC013	A/M BDE CP COMM TRACK	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC016	TSC-(M)	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC018	DIV SSO COMM BSBL	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC021	MSC (MBL SUP CNTRL)	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC024	MSTT TAC CP	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC026	BN CP COMM TRACK	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC031	DTOC COMM ASBL	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC032	DTOC STAFF COMM ASBL	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC033	DISCOM COMM ASBL	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC034	FASC/SPT BN COMM ASBL	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC035	DIV/BDE COMM ASBL	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC036	DIV/AICC COMM ASBL	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC037	BN COMM ASBL	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC041	SB-3865 ULS(30)	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC042	SB-3865 ULS(60)	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC043	SB-22	226	6780.0	226.0	113.0	1175.2	1288.2	7051.2	7932.6	0	0	0
AAC378	TSC-61	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC380	TSC-71	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
C5C421	AN/VRC-24 RADIO SET	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
V3C252	TA-1/PT TELEPHONE SET	775	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
	TOTALS	9521	172255.0	2328.6	212489.5	3485.2	25581.0	8899.2	30645.5	0	52	0

EQUIPMENT CATEGORIES FOR THIS CANDIDATE IS 67
PREVENTIVE MAINTENANCE (PM) EXPRESSED IN MANYEARSFOR THIS CANDIDATE IS 5.8
CORRECTIVE MAINTENANCE (CM) EXPRESSED IN MANYEARS FOR THIS CANDIDATE IS 7.0
WEIGHT IN TONS FOR THIS CANDIDATE IS 51.1
PERCENT PM WITHOUT TEST EQUIPMENT FOR THIS CANDIDATE IS 13.6
PERCENT CM WITHOUT TEST EQUIPMENT FOR THIS CANDIDATE IS 29.0
POWER EXPRESSED IN KILOWATTS(KW) FOR THIS CANDIDATE IS 212.5
TOTAL VOLUME (CUFT) IS 2328.6
TOTAL NUMBER VEHICLES IS 0
TOTAL NUMBER U.S. PERSONNEL IS 52
TOTAL NUMBER SECURE SUBSCRIBERS IS 0

TABLE B-8 Sample Output MOETOFLIST

SIGNAL PERSONNEL REQUIREMENTS

This appendix describes a personnel program which was developed under the INTACS Study.

Army furnished Audit Trail (ALFA) - INTACS Personnel ADP Run 1975 was provided to simplify tracking the quantity of personnel in support of INTACS candidates. This program must be updated and slightly modified for summing by officer (OFF), Warrant Officer (WO), and Enlisted (ENL) in order for it to furnish the data required to support the update of INTACS Architecture.

Personnel ADP justification and outputs for the following requirements are described below:

- Signal MOS personnel in non-Signal units.
- All personnel in Signal units.

1.0 JUSTIFICATION FOR COMPUTER SUPPORT

In order to determine the number of Signal MOS personnel in the INTACS force model non-Signal units, programming for access to and formatting of data from the TOE file at Fort Leavenworth is required.

The magnitude of these audit trails is reflected by the following:

- There are approximately 400 discrete TOEs in the force model: 42 Signal and 358 non-Signal.

2.0 ADP SUPPORT REQUIRED

2.1 Force Model Listing (INTACS Study)

This is the prerequisite to subsequent listings:
Unit TOE's, quantity, by echelon.

2.2 Personnel

- Total Signal MOS personnel, (Enclosure 3), in all TOE's, subtotalled in 8 groups: Supvr/con (C&C), Radio (05), Wire, Switching, Comcen (TTY), COMSEC (KY), Multichannel, and Maintenance. Also, subtotal

by OFF, WO, and ENL. (See Enclosure 1 - Format)

- Non-Signal MOS personnel, (Other-Enclosure 4), in Signal TOE's subtotalled in 6 groups: P&A, Supply, Food Service, Aircraft O&M, Wheeled veh O&M (MTR), A/V. Also, subtotal by OFF, WO, and ENL. (See Enclosure 1)
- Roll-up MOS for each echelon and for Force. Also, subtotal by OFF, WO, and ENL. (See Enclosure 2)

3.0 OBJECTIVE SYSTEM

In addition to the foregoing, a TOE work file for the INTACS Objective System must be established and placed in the TOE data base file at Fort Leavenworth.

The INTACS study was approved by HQs Dept. of the Army on 17 February 1976 however to date no known effort has been made to formulate working draft TOE's to support the Objective System.

Basic information to support formulation of INTACS Objective System working draft TOE's is available in Task V and VI of the DA approved INTACS study and in the INTACS System Architecture (Objective System Refinement) dated May 1979. Chapter 2, TRADOC Pamphlet 71-4 provides procedures and guidance which are to be followed when placing working draft TOE into the TRADOC automated data files.

Placement of the INTACS Objective System TOE working file into the TRADOC data base will facilitate responsive and rapid update of the Objective System as approved changes occur.

- MOS's of concern include some 65 signal and 58 other specialties- or a total of 123 MOS's. The 65 signal MOS's are divided into 8 functional categories; ie.: Supervisory/control, radio, wire, switching, Comcen, COMSEC, multichannel, and maintenance.

The audit trails for INTACS started with data extracted from the Army TOE data bank to establish the baseline ALFA, followed by manual adjustment and rationale through each of the succeeding candidate designs. In order to reduce the manual effort to a manageable level within the time frame allowed, the following support/programming tasks were accomplished:

- Rearrange the force model card deck in terms of TOE's by echelon, by quantity.
- Enable extraction of MOS data by 14 functional groups in 1 run for signal MOS's and for non-signal.
- Enable the computer to scan TOE recapitulation sections and display total MOS groups per TOE.
- Enable the computer to search TOE paragraphs containing signal MOS's in non-signal units.

Enclosures:

1. Signal Personnel MOS Format
2. Personnel MOS Roll-up
3. MOS Grouping # 1-8, Signal
4. MOS Grouping # 1-6 Non-Signal

Enclosure 1 SIGNAL PERSONNEL

[illegible] MEDICAL CO,MED BN (ARMD DIV) NO SIG PERS

SUPPLY & SVC CO,S&T BN (ARMD DIV)

	C&C	05	WIRE	SWCH	TTY	KY	MCHL	MAINT	COMMO	OTH	P&A	SUP	FOOD	AIR	MTR	A/V	TOTAL		
10007 1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0		0	0
[illegible]66	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
2[illegible]A	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0
[illegible]=	0	0	100	0	0	0	0	0	100	0	0	0	0	0	0	0			

OFF
WO
ENL

DIV SIGNAL BN (ARMD DIV)

	C&C	05	WIRE	SWCH	TTY	KY	MCHL	MAINT	COMMO	OTH	P&A	SUP	FOOD	AIR	MTR	A/V	TOTAL		
11[illegible]36 1	5	0	0	0	0	0	0	0	5	3	1	1	0	0	1	0		0	0
11036 2	2	0	1	0	0	0	0	0	3	3	1	2	0	0	0	0		0	0
1103[illegible] 3	0	0	0	0	2	0	0	0	2	9	4	5	0	0	0	0		0	0
11[illegible] 4	3	0	0	0	1	0	0	0	4	2	2	0	0	0	0	0		0	0
11[illegible] 5	4	0	0	0	2	0	0	0	6	1	1	0	0	0	0	0		0	0
11[illegible] 6	0	0	0	0	0	0	0	0	0	19	0	1	0	0	17	0		0	0
11[illegible] 7	0	0	0	0	0	0	0	15	15	1	0	1	0	0	0	0		0	0
11[illegible] 8	0	0	0	0	3	9	0	0	12	0	0	0	0	0	0	0		0	0
11[illegible]10	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0		0	0
411	14	0	1	0	8	9	0	15	47	48	9	10	0	0	18	10	95	0	0
[illegible]A	28	0	2	0	16	18	0	30	94	96	18	20	0	0	36	20	190	0	0
[illegible]=	15	0	1	0	8	9	0	16	49	51	9	11	0	0	19	11			

OFF
WO
ENL

COMMAND OPERATIONS CO (ARMD DIV)

	C&C	05	WIRE	SWCH	TTY	KY	MCHL	MAINT	COMMO	OTH	P&A	SUP	FOOD	AIR	MTR	A/V	TOTAL		
11[illegible] 1	2	0	0	0	1	0	0	3	6	27	1	4	9	0	13	0		0	0
11[illegible] 2	4	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0		0	0
11[illegible] 3	1	0	0	0	37	0	0	0	38	0	0	0	0	0	0	0		0	0
11[illegible] 4	9	0	1	12	0	0	0	0	22	0	0	0	0	0	0	0		0	0
11[illegible] 5	0	24	0	0	0	0	0	0	24	0	0	0	0	0	0	0		0	0
11[illegible] 6	0	0	0	0	0	0	50	0	50	0	0	0	0	0	0	0		0	0
11[illegible] 7	0	0	27	0	0	0	0	0	27	0	0	0	0	0	0	0		0	0
[illegible]12	16	24	28	12	38	0	50	3	171	27	1	4	9	0	13	0	198	0	0
[illegible]A	32	48	56	24	76	0	100	6	342	54	2	8	18	0	26	0	396	0	0
[illegible]=	8	12	14	6	19	0	25	2	86	14	1	2	5	0	7	0			

OFF
WO
ENL

FORWARD COMM CO (ARMD DIV)

	C&C	05	WIRE	SWCH	TTY	KY	MCHL	MAINT	COMMO	OTH	P&A	SUP	FOOD	AIR	MTR	A/V	TOTAL		
110[illegible] 1	2	0	0	0	1	0	0	2	5	18	1	4	6	0	7	0		0	0
110[illegible] 2	6	0	0	0	0	0	0	0	6	5	0	0	0	0	5	0		0	0
110[illegible] 3	0	0	0	0	18	0	0	0	18	0	0	0	0	0	0	0		0	0
110[illegible] 4	9	0	0	9	0	0	0	0	18	0	0	0	0	0	0	0		0	0
110[illegible] 5	0	27	0	0	0	0	0	0	27	0	0	0	0	0	0	0		0	0
110[illegible] 6	0	0	21	0	0	0	0	0	21	0	0	0	0	0	0	0		0	0
110[illegible] 7	0	0	0	0	0	0	45	0	45	0	0	0	0	0	0	0		0	0
[illegible]13	17	27	21	9	19	0	45	2	140	23	1	4	6	0	12	0	163	0	0
[illegible]A	34	54	42	18	38	0	90	4	280	46	2	8	12	0	24	0	326	0	0
[illegible]=	10	17	13	6	12	0	28	1	86	14	1	2	4	0	7	0			

OFF
WO
ENL

SIG SUPPORT OPNS CO (ARMD DIV)

	C&C	05	WIRE	SWCH	TTY	KY	MCHL	MAINT	COMMO	OTH	P&A	SUP	FOOD	AIR	MTR	A/V	TOTAL
[illegible]0 1	2	0	0	0	1	0	0	1	4	20	1	4	6	0	9	0	
[illegible]A	1	0	1														

Enclosure 2 ROLL - UPS

4970 TRANS ACFT MAINT CO (APMD DIV) NO SIG PERS

	C&C	OS	WIRE	SWCH	TTY	KY	MCHL	MAINT	COMMO	OTH	P&A	SUP	FOOD	AIR	MTR	A/V	TOTAL		
NO 11=	487	350	750	0	26	0	0	248	1861	18	0	0	0	0	0	0	1879		
11 TOT=	114	120	210	56	158	18	264	42	982	236	24	44	42	0	104	20	1218	31N	056E
[illegible]	15	15	31	2	6	1	9	9	92	8	1	1	1	0	3	1		0	4

OFF WO ENL

0205	058	36C	72C	72B	341A	31M	4825	2110	4010	94A	71P	631A	41E		
0405	05C	36E	72G	72F	31S	36D	281A	2260	761A	94B	76H	0600	84B		
0505	05E	36K	72H	72E	31T	31D	301A	2350	56A	94Z	76T	71T	84G		
7681	05F			721A	310		285A	5310	76A	941A	1980	52A	41F		
7750							26L	6302	76D		1987	52A	84C		
7850							26YT	11AT	66	1	0085	28 B	500		
7881							340	00E	76K		101G	63A	8510		
1010							36H	00U	76S		101C	638			
0220							34B	70A	76U		56C	63C			
0221							31B	71B	76W		67B				
0425							31E	71D	76Y		67G				
316							31J	71H	76Z		67N				
31Z							31L	71L			67R				
31N							31W	71M			67W				
26P							35B	71Q			67Z				
****							366	73C			****				
2162								73C			35K				
0112								75B			35L				
								75Z			35M				
								81A			35N				
								75C			35P				
								75D							
								75E							
								75F							
								75G							

C-5

FORCE TOTALS

	C&C	OS	WIRE	SWCH	TTY	KY	MCHL	MAINT	COMMO	OTH	P&A	SUP	FOOD	AIR	MTR	A/V	TOTAL
NO 11=	1937	3292	5560	6	1444	3	812	3304	16378	143	1	4	0	0	17	0	16521
11 TOT=	2313	1483	4394	1262	3669	478	5026	1787	20627	6459	784	1038	1041	111	2206	710	27286
TOTALS=	4250	4775	9974	1268	5313	481	5838	5091	37005	6802	785	1042	1041	111	2223	710	43807
[illegible]	10	11	23	3	12	1	13	12	84	16	2	2	2	0	5	2	

OFF WO ENL

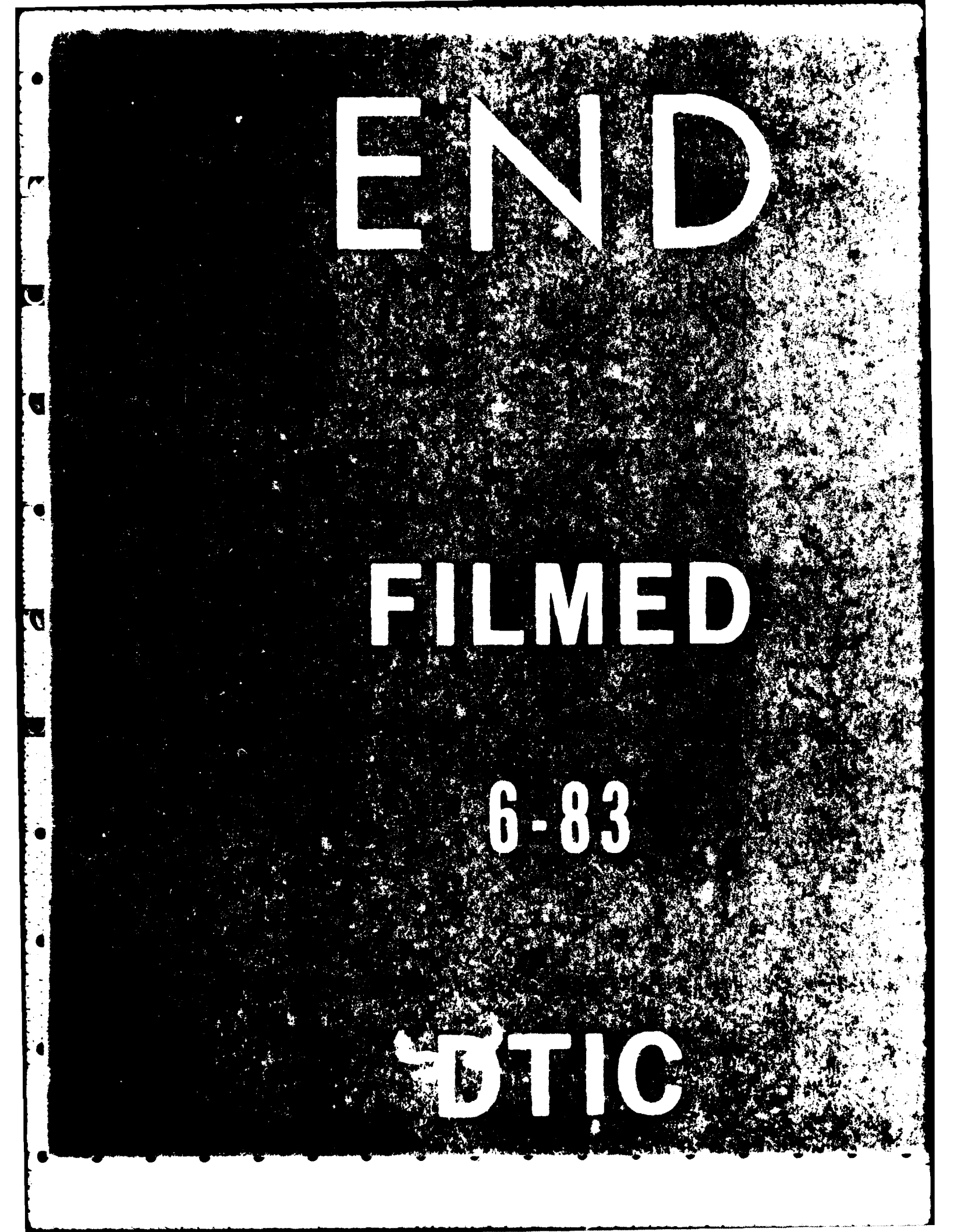
Enclosure 3, MOS Grouping # 1-8, Signal

MOS AUDIT TRAIL
(By Function Category)

	C&C	05	WIRE	SWCH	TTY	KY	MCHL	MAINT	
	25A								
	25B								
O	27A								
F	27B								
F	72A								
W					290A	290AV		285A	
O								286A	
								287A	
					72E	31S	31M	26L	35M
	31V	05B	36E	36C		31T	26Q	26Y	35R
E	31Z	05C	36K	72G		32F	26R	34B	35H
N	31N		36D	72H		32G		34C	32H
L	34Z							34E	35E
	32Z							34F	26C
	32D							34K	26B
								34H	26V
								36H	36L
								31E	34J
								31J	
								26L	
								35B	
								26H	
								26D	
								26E	
								26K	
								26M	
								26N	
								41G	
								35P	
								35K	
								35L	

Enclosure 4, MOS Grouping # 1-6, Non-Signal

	P&A	S U P	FOOD	AIR	MTR	A/V
O F F	40A	70A		15A	77D	
	42A	71A		15B		
	56A			15C		
				15M		
				15S		
W O	711A	761A	041A	100B	630A	
		762A		100C		
				100D		
				100E		
				100Q		
				100R		
				100A		
E N L	00U	51R	94B	71P	52D	81E
	71L	45B		93H	63W	
	71M	76Z		93J	63H	
	75B	76C		67G	63S	
	75C	76Y		67U	63Y	
	75E			67V	63Z	
	75Z			67X	64C	
	73C			67Y	64Z	
	71D			67T		
	79D			67Z		
	00E					


END
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6-83
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